



**DELTA PLUS**  
YOUR SAFETY AT WORK



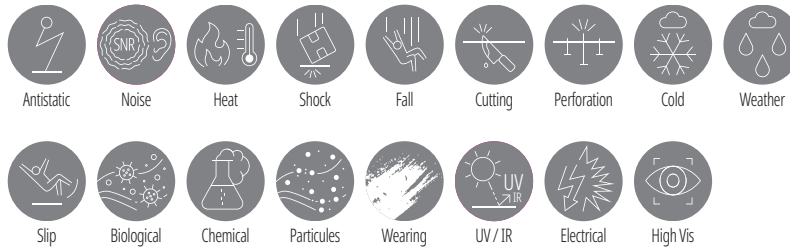
**THE SAFETY BOOK**

# Offering the best PPE solution at the best price

To easily find the best PPE solution:

there are 3 lines of research needed

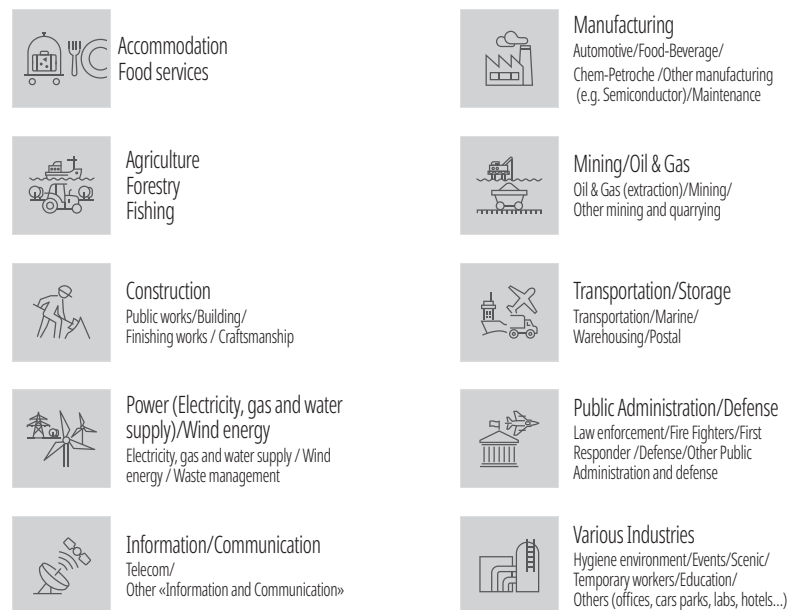
## RISKS



## LEVELS OF THE RANGE



## JOBS





# OUR GLOBAL OFFER



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**HEAD PROTECTION** 001

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**HAND PROTECTION** 066

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**DISPOSABLE WEAR** 132

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**WORK WEAR** 146

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**OUTDOOR WEAR** 176

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**TECHNICAL WEAR** 214

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**FOOT PROTECTION** 240

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**FALL PROTECTION** 292

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# DELTA PLUS

YOUR SAFETY AT WORK



## Our Purpose

We protect women and men at work



## Our Mission

Designing, manufacturing and distributing a full range of Personal Protective Equipment (P.P.E.)..



## Our Values

We are a family business, with an entrepreneurial spirit and a natural curiosity, oriented towards the long term.



## Our Vision

Our desire is to elevate our positioning and establish Delta Plus as a key brand in the PPE market over the long term.



## Our Markers

To be recognized for :

- Our market share
- Our differentiated products
- Our Services
- Our international coverage

# OUR MISSION



**Analyse  
of users  
needs**



**Design**



**Manufacturing**

- Head protection
- Hand protection
  - Clothes
- Foot protection
- Fall Arrest protection



**Logistic**



**Distribution**





# OUR HISTORY

## 1977

Delta Plus protects women and men at work. Thus, we mobilize our know-how, adaptability and pioneering spirit for over 40 years.

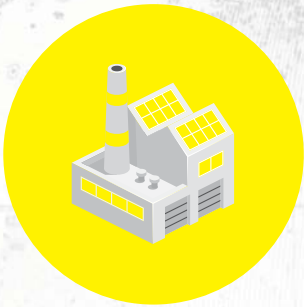


### Creation of a group

- Jacques Benoit founds Delta Plus and imports the first containers.
- Standards and European construction speeds up the growth of market.
- International development around the Mediterranean arc, then on the whole of Europe.



2004 ——— 2013



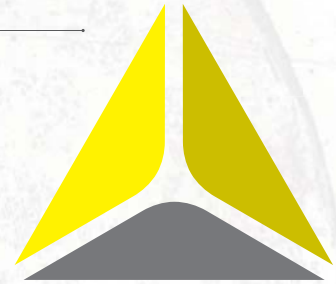
## The turning point of production

- Investment in production in India and then in China.
- Reinforcement in value-added technical families of product
- Continuing internationalisation in Europe and Middle East.



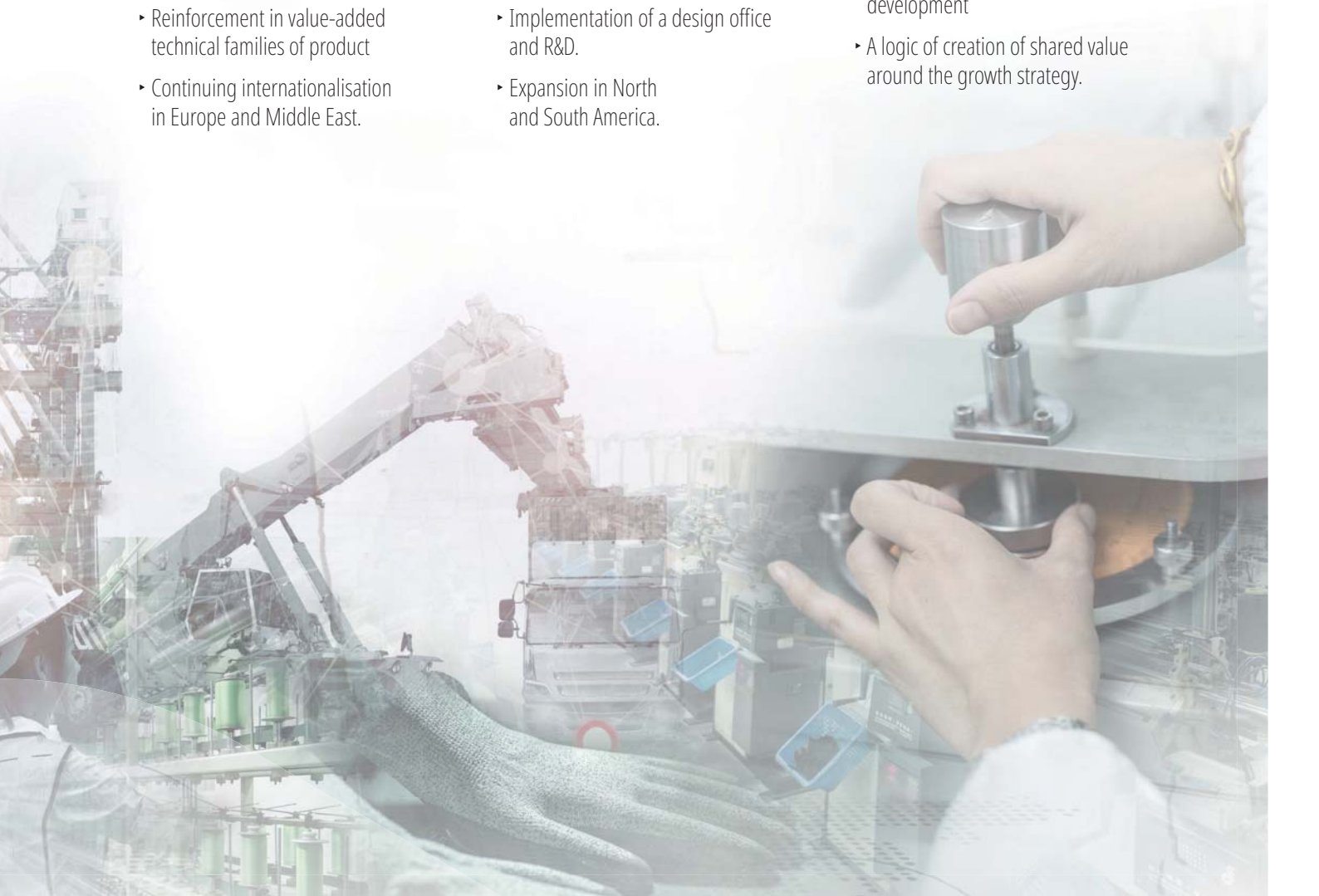
## Creation of a brand

- Transition to a unique brand Delta Plus.
- Implementation of a design office and R&D.
- Expansion in North and South America.



## A brand reference

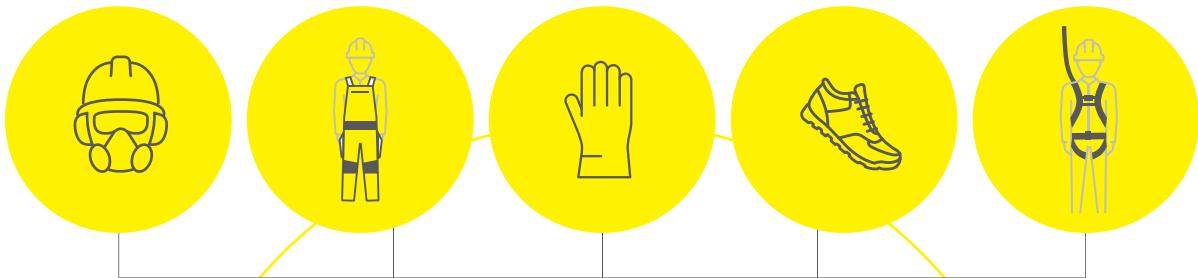
- A structured growth including practice of sustainable and social development
- A logic of creation of shared value around the growth strategy.



# OUR UNIQUE OFFER

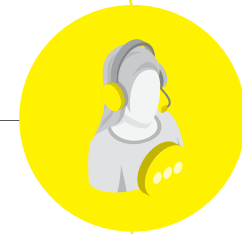
## "Global offer"

- We cover the 5 major ranges of PPE positioning us as a multi-specialist, and a "one stop shopping" offer provider.



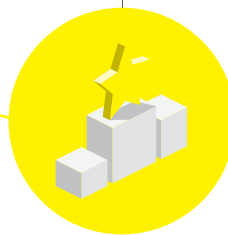
### "Value Products"

- An intermedite positioning which ensure a quality/price ratio for our customers and optimization of value creation for our distributors and users.



### Proximity

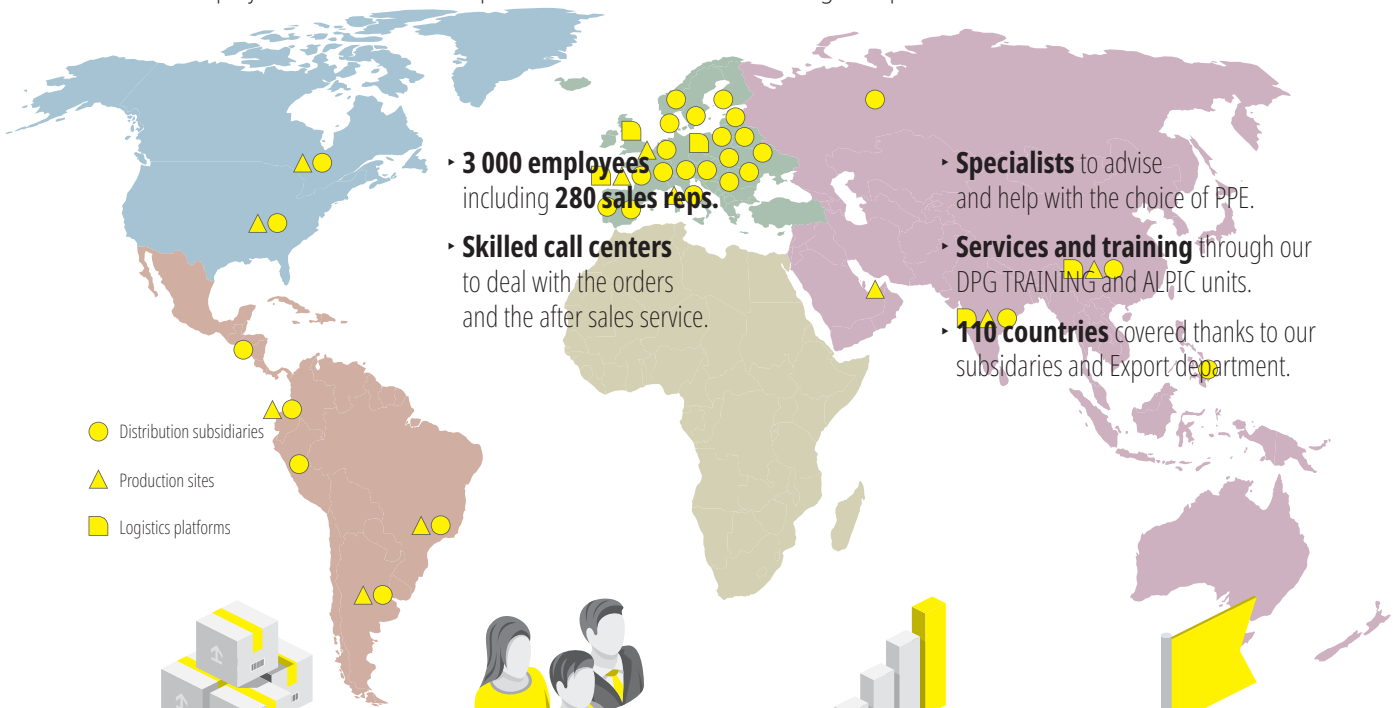
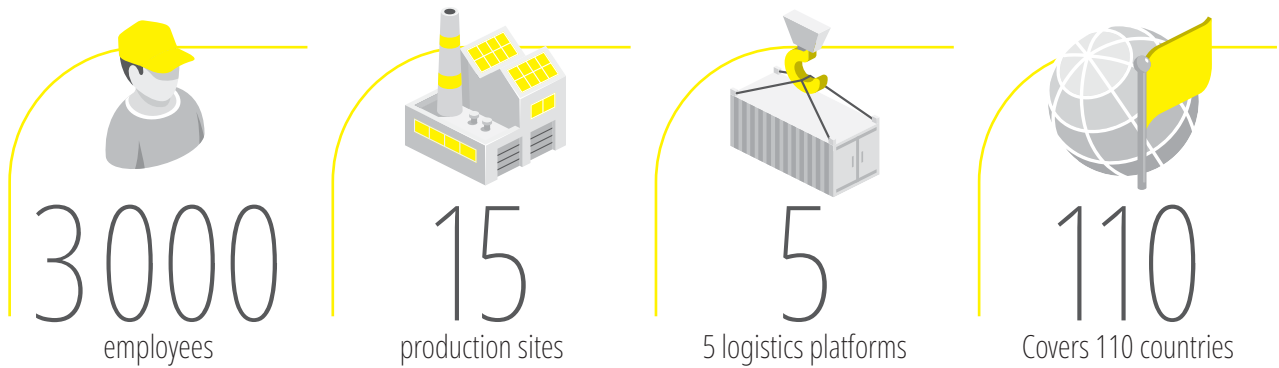
- Customer proximity with daily support for distributors and users thanks to our experts.



### Service

- A service that serves as a benchmark in the business.

# OUR GEOGRAPHIC COVER



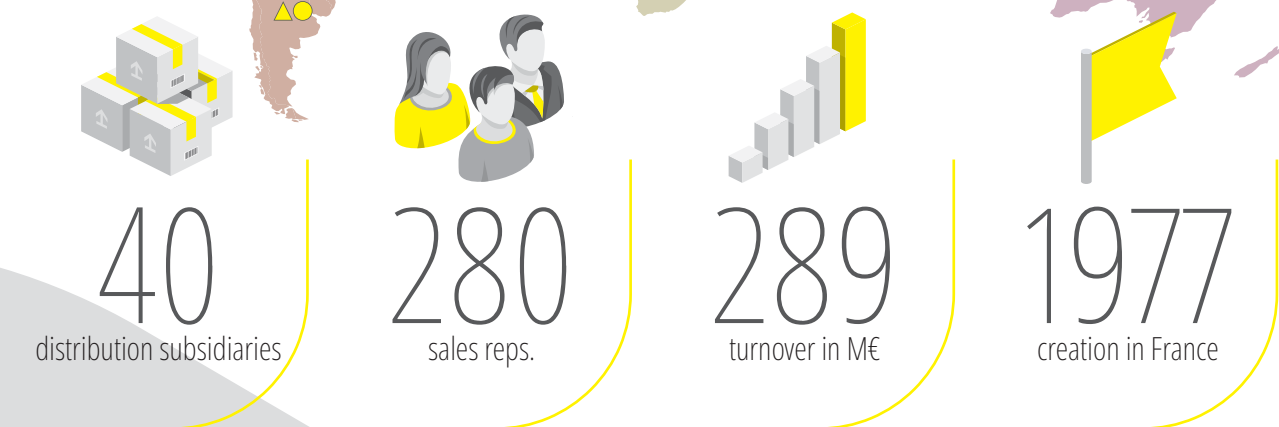
▶ **3 000 employees** including **280 sales reps.**

▶ **Skilled call centers** to deal with the orders and the after sales service.

▶ **Specialists** to advise and help with the choice of PPE.

▶ **Services and training** through our DPG TRAINING and ALPIC units.

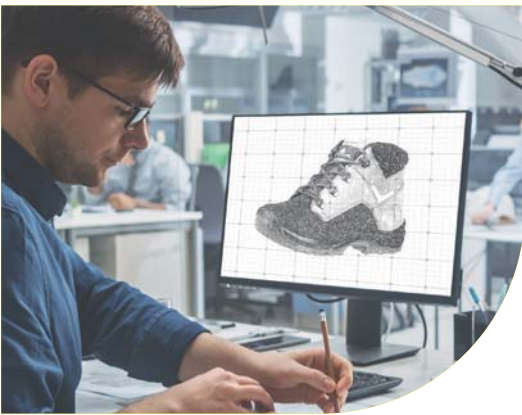
▶ **110 countries** covered thanks to our subsidiaries and Export department.





# OUR INNOVATIVE OFFER

We offer PPE solutions that provide the best fit for the workplace, from the most technical to the most standard requirement.



## OUR R & D THE SUCCESSES OF TOMORROW

4  
million  
Euro/ year

15%  
new  
products / year

25  
dedicated  
people

7000  
hours  
of tests / year



### Network organization by competence center

- **Plastics** : France, China.
- **Mechanics** : France, China.
- **Textile** : France (Textile ingeneer), China (technical fabrics and fall arrest), Argentina (weaving and fall arrest), UAE (fall arrest).
- **Safety footwear** : China and India.
- **Respiratory** : China, Spain and Brazil.
- **Project engineering, building safety equipment** : France.



### Internal laboratories

- **Leading edge** in China on the 5 ranges and in Spain on head protection.
- **Proximity control** in France, Argentina and UAE.
- **A fleet of almost 200 machines** and test equipment.
- **50 000 tests performed per year.**



### Partnerships with experts and external companies

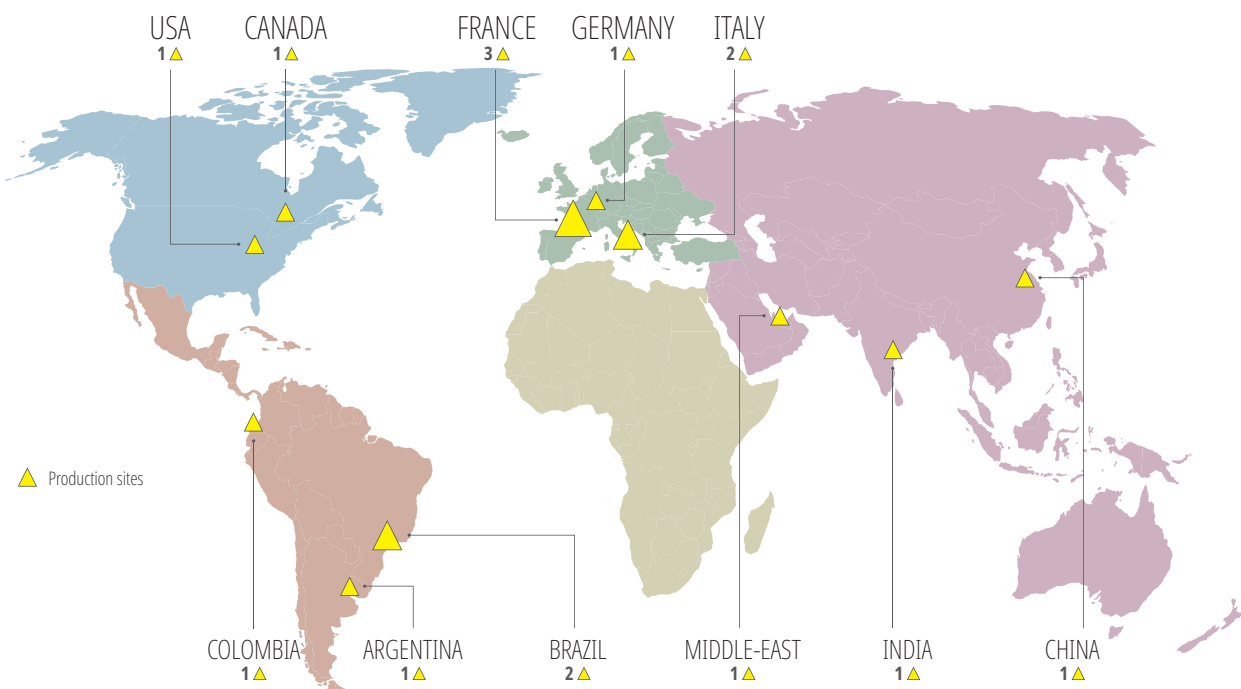





# OUR INTEGRATED MANUFACTURING

Manufacturing expertise on high-tech products at our 15 production sites.

1500  
Personal protection items

8000  
references

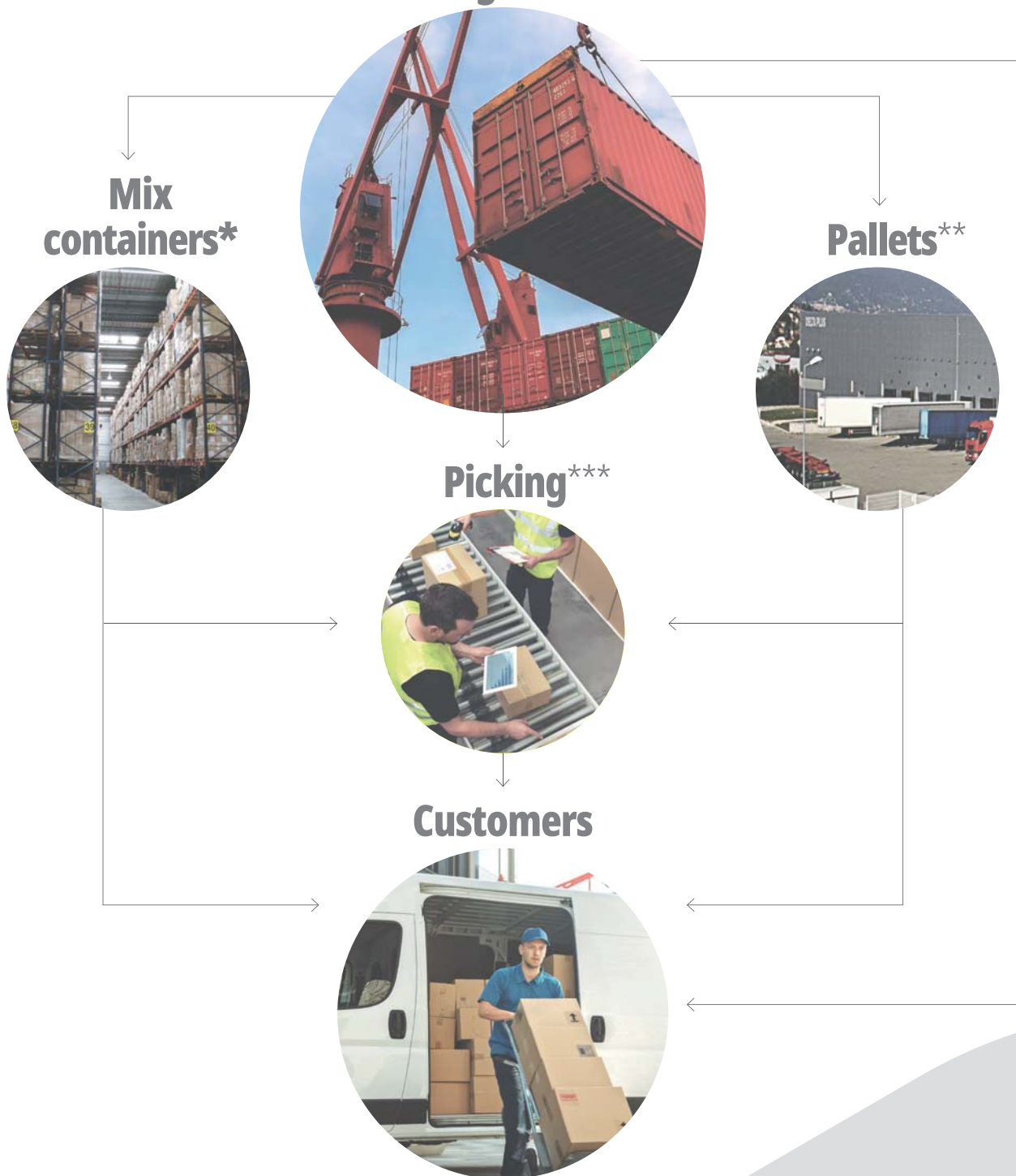


 <p><b>Head protection</b></p> <ul style="list-style-type: none"> <li>▶ 3 millions helmets.</li> <li>▶ 14 millions pairs of glasses.</li> <li>▶ 70 millions masks.</li> </ul>	 <p><b>Body protection</b></p> <ul style="list-style-type: none"> <li>▶ 2 millions workwear.</li> <li>▶ 1,4 millions technical wear.</li> <li>▶ 2,5 millions disposable coveralls.</li> </ul>	 <p><b>Hand protection</b></p> <ul style="list-style-type: none"> <li>▶ 50 millions pairs of glove</li> </ul>	 <p><b>Foot protection</b></p> <ul style="list-style-type: none"> <li>▶ 7,5 millions footwear protection.</li> </ul>	 <p><b>Fall protection</b></p> <ul style="list-style-type: none"> <li>▶ 150 000 harness.</li> <li>▶ 200 000 sold systems.</li> </ul>
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# OUR LOGISTIC ORGANIZATION

Where ever you are in the world, we offer the most performant level of services on the PPE world market.

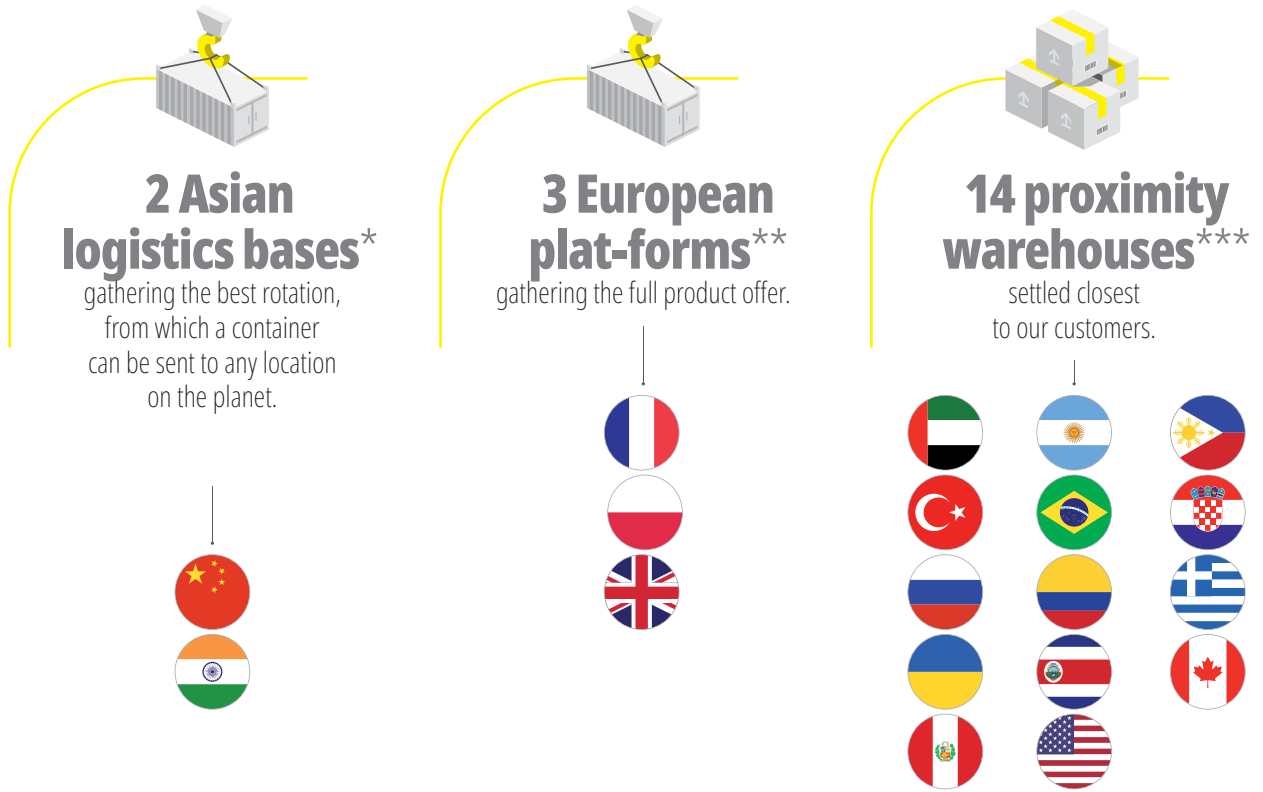
## Mono range containers



# 55000 m<sup>2</sup> of storage

## A commitment to product availability

### 3 days delivery



# OUR CERTIFICATIONS

We have implemented a system of continuous improvement in terms of both products and services.

Delta Plus is certified ISO 14001 (environmental management)

Delta Plus is certified ISO 9001-2015 (quality management)

DELTA PLUS France  
FROMENT France  
VERTIC France

DELTA PLUS China

ALLSAFE Dubai

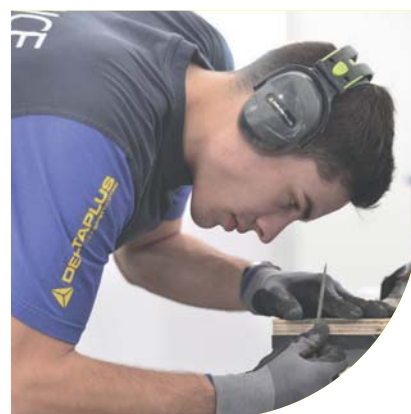
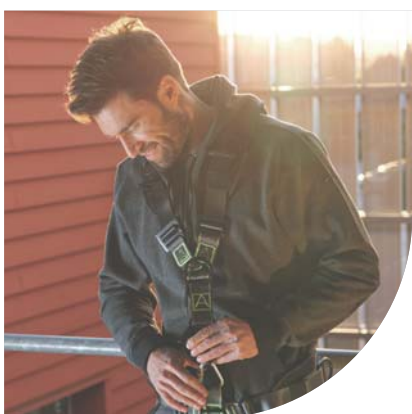
PRO SAFETY Brazil

ESLINGAR Argentina

DELTA PLUS India

# OUR CSR APPROACH

The DELTA PLUS Group is committed for more than 10 years to a global approach of social responsibility, covering the 3 following main axes :



## P

People \*

Because we want our employees to have the mean to thrive in the workplace, healthy and safe.



▶ Safety at work



▶ Training and expertise development



▶ Health and protection of employees



▶ Management of attendance time and our resources

## P

Planet \*

Because we want to lead our economic development by limiting its impact on future generations.



▶ Waste management



▶ Impact on Climate Change



▶ Control of resources



▶ Environmental impact of product life time

## E

economy \*

Because we want our business develops in a secure environment, ethical and responsible.



▶ Fair practices



▶ Involving suppliers in our approach



▶ Protection of internal resources



▶ Support to local initiatives





# ✧ Personal Protective Equipment

stands for P.P.E. (Personal Protective Equipment)

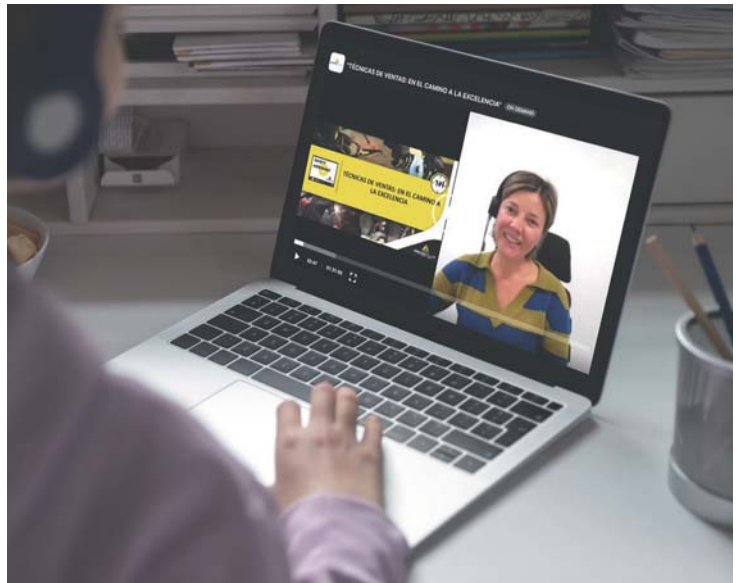
# PPE

# ✧ People Planet Economy

Sustainable  
stands for Persons, Plant, Sustainable Economy

✧ WorldSkills partner since 2007

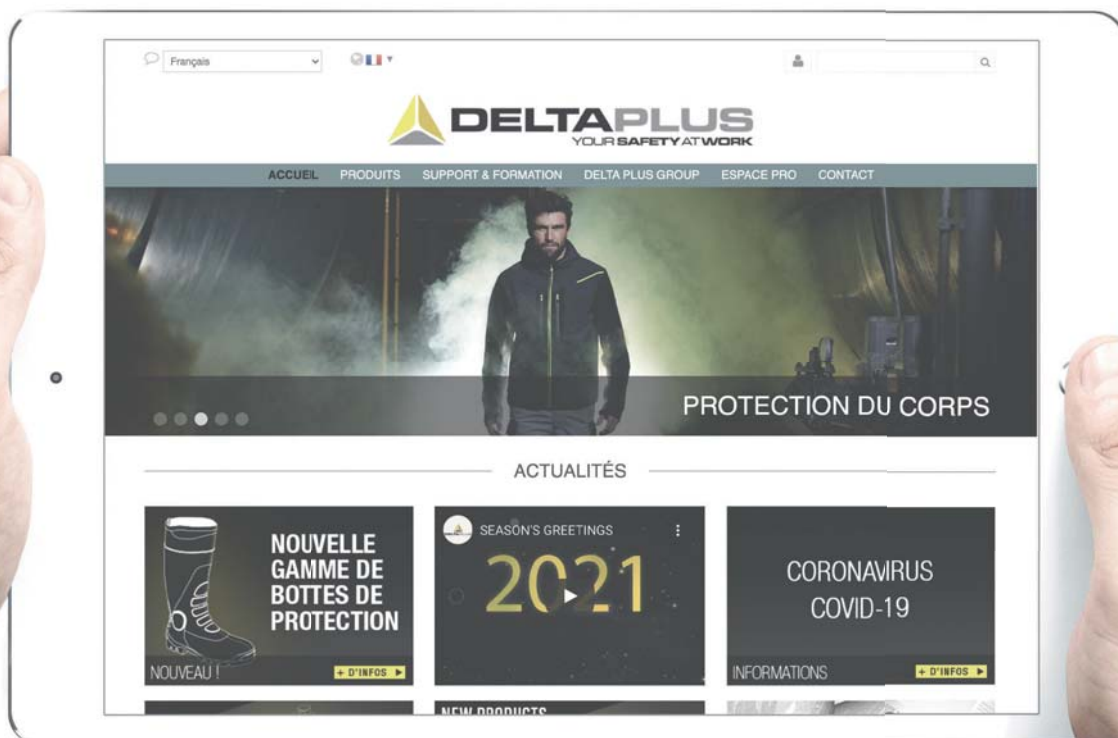
[www.worldskills-france.org](http://www.worldskills-france.org)



✧ Production 380,000 kWh / year or 63% of consumption seat

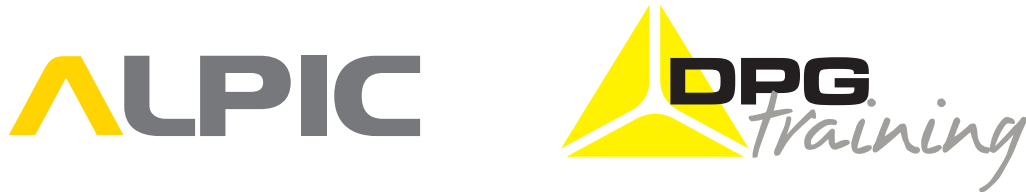
# www.deltaplus.eu

Available in 16 languages.



**Videos, tutorials and image bank**

# TRAINING



We are available to monitor you during your training course to match your needs as close as possible. Our training centers are mainly dedicated to health and safety.



## Offer in Present, On site, E-learning

Our offer proposes structured training as follows:

- ▶ **Present** (in the classroom with a trainer): on topics around PPE, sales techniques applied to PPE, risk assessment and recommendations for solutions etc.
- ▶ **On site** (practical training): working at height, working in wind, rescue and evacuation etc.
- ▶ **E-learning** (PPE course) : visual inspection of fall arrest PPE, full course of PPE, modules dedicated to the standard PPE environment etc.



## We address

- ▶ **For sales teams** to organize and deepen their knowledge of PPE to develop their sales and give more meaning to their job as their business proposals.
- ▶ **For companies** that use PPE to identify the most appropriate answers to the risks of their work environment, to choose the most efficient products and follow up the necessary review of PPE category III.
- ▶ **QSE employers and managers**, whose teams work at height and who, in accordance with the Labor Code, must be trained in the risks related to their work.



## Training is essential

**For example, particularly when it is about Fall protection PPE Category III against fatal and irreversible risks.**

It allows:

- ▶ Awareness of working at height
- ▶ Analysis of risk situations
- ▶ Securing workstations
- ▶ Finding protection solutions
- ▶ Providing more productivity
- ▶ Providing technical expertise in inspection, maintenance and repair of products





*Delta Plus provides protection at work from head to toe for both women and men*





# HEAD PROTECTION



## EYEWEAR PROTECTION

Safety glasses <i>HELP WITH CHOICE</i>	002
Safety glasses	003
Safety goggles	020
Welding <i>HELP WITH CHOICE</i>	022
Welding	023
Safety visors <i>HELP WITH CHOICE</i>	026
Safety visors	027

## SKULL PROTECTION

Safety helmets <i>HELP WITH CHOICE</i>	032
Safety helmets	033
Helmets accessories - Marking	041
Bump cap	042



## HEARING PROTECTION

Ear defenders <i>HELP WITH CHOICE</i>	044
Ear defenders	045
Reusable earplugs	048
Disposable earplugs	049

## RESPIRATORY PROTECTION

<i>HELP WITH CHOICE</i>	051
Reusable respiratory <i>HELP WITH CHOICE</i>	052
Reusable respiratory	053
Disposable respiratory <i>HELP WITH CHOICE</i>	057
Disposable respiratory	058



## TECHNICAL INFORMATION

355-365



# Glasses

All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm).  
Our UV400 glasses filter up to 400 nm.

		PAGES	Indoor / Outdoor										Anti-mist N	SUPPLIED ACCESSORIES			
			Indoor	Indoor	Outdoor	Outdoor	Indoor	Outdoor	Indoor	Indoor	Indoor	Indoor	Anti-scratch K				
			CLEAR	YELLOW	SMOKE	MIRROR	LIGHT MIRROR	POLARISED	GRADIENT	BLUE LOCKER	TS	LVIZ					
GLASSES	INTENSIVE & EXTREME USE	GO-SPECS TEC	3	◆													
		PACAYA	5-6	◆		◆							◆	◆			
		RIMFIRE	7	◆			◆		◆								🔍
		BLOW 2	8	◆			◆	◆									
		ASO2	9	◆		◆									◆		🔍
		VULCANO2 PLUS	9	◆											◆		
	COMFORT & LIGHTNESS	THUNDER	12	◆		◆											🔍
		FUJI2	12	◆						◆							🔍
		VULCANO	9	◆		◆											
		HELIUM2*	11	◆		◆											
		IRAYA	13	◆	◆	◆											🔍
		MEIA	14	◆	◆	◆											
		MILO	14	◆		◆											
	CLASSIC & MULTI-PURPOSE	EGON	15	◆	◆	◆		◆									
		LIPARI2	16	◆									◆				
		KISKA2	16	◆		◆											
		BRAVA2	17	◆	◆	◆	◆	◆									
		KILIMANDJARO	18	◆		◆											
PITON2		18	◆														
OVERGLASSES		OPALA	19	◆											◆		
	HEKLA2	19	◆														
	PITON	19	◆														
GOGGLES	PANORAMICS	SAJAMA	20	◆										◆			
		GALERAS	20	◆		◆											
	COMPACT	RUIZ1 ACETATE	21	◆													
		RUIZ1	21	◆													
		MURIA1	21	◆													

\*Available in blue blocker and detectable

## GO-SPECS TEC CLEAR

### Ergonomic hybrid solution (1)

• Ideal alternative to eye masks: more compact, lighter, and comfortable

### Flexible TPE seal (2)

• Protects against solid or liquid projections

### Indirect ventilation (3)

• Minimises the appearance of mist

### Tilting arms

• Perfect fit to the shape of the face

### Neoprene strap

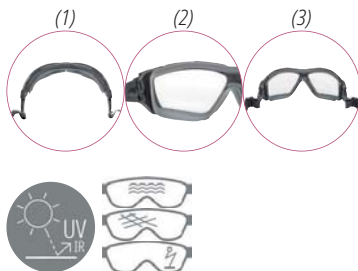
• Resistance to chemical projections

• Washable

UV filtration A, B and C at 99.9% (130-380 nm)

Reinforced impact resistance

Ballistic Vo rated for ballistic protection [ Impact according to the military standard MIL-PRF-31013]



GO-SPECS TEC CLEAR	Clear	Polycarbonate single lens glasses. Frame with TPE seal. Neoprene elastic strap with adjustable buckle. Tilting. Side protection.	CE	EN166 1BT/BT	EN170 2C-1.2	ANSI ANSI-ISEA Z87.1 Z87+ U6 D3	54 g	x 100
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Dirty protective eyewear risks becoming unworn protective eyewear and thus expose the user to a risk. We have developed an innovative **LyViz™** treatment that keeps the eyepiece cleaner longer and makes it easier to clean.

*Isabelle Dupuis, Head Protection Product Expert*

# The safety spectacles are always clean thanks to the **LyViz™** treatment!

Helps workers see their task clearly to ensure their safety at work.



Highly oleophobic & hydrophobic  
the contact angle remains greater than 105°

Coating  
Oleophobic  
Hydrophobic  
by Delta Plus



More resistance to abrasion  
20% > regular test



Ultra-low vapour effect  
less than 0.11% increase in  
fog after abrasion

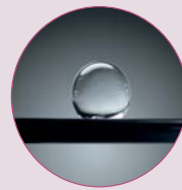




**Tilting arms**  
 • Perfect fit to the shape of the face  
 PACAYA CLEAR LYVIZ  
 PACAYA SMOKE LYVIZ  
 PACAYA CLEAR STRAP LYVIZ



**Removable foam protection**  
 • Very good sealing in dusty environments  
 • Increased comfort in case of shock  
 PACAYA CLEAR LYVIZ  
 PACAYA SMOKE LYVIZ  
 PACAYA CLEAR STRAP LYVIZ



**LyViz treatment : hydrophobic and oleophobic coating**  
 • Clean eyes guaranteed for longer  
 • Reinforced anti-scratch treatment  
 PACAYA CLEAR LYVIZ  
 PACAYA SMOKE LYVIZ  
 PACAYA CLEAR STRAP LYVIZ



**PACAYA CLEAR LYVIZ**

**LYVIZ™**



**PACAYA SMOKE LYVIZ**

**LYVIZ™**



**PACAYA CLEAR STRAP LYVIZ**

**LYVIZ™**



PACAYA CLEAR LYVIZ	Clear			EN170 UV2C-1.2	ANSI-ISEA Z87.1 Z87+ U6	36 g	x 100
PACAYA SMOKE LYVIZ	Smoke	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.	CE	EN166 1 FT/FT	EN172 UV5-3.1 	ANSI-ISEA Z87.1 Z87+ U6 L3	
PACAYA CLEAR STRAP LYVIZ	Clear			EN170 UV2C-1.2	ANSI-ISEA Z87.1 Z87+ U6	41 g	



**Tilting arms**

- Perfect fit to the shape of the face

PACAYA CLEAR  
PACAYA CLEAR STRAP  
PACAYA SMOKE  
PACAYA T5



**Removable foam protection**

- Very good sealing in dusty environments
- Increased comfort in case of shock

PACAYA CLEAR  
PACAYA CLEAR STRAP  
PACAYA SMOKE

**PACAYA CLEAR**



**PACAYA CLEAR STRAP**

Wide elastic and adjustment system

- Precise adjustment



**PACAYA SMOKE**



**PACAYA T5**



PACAYA CLEAR	Clear		CE	EN166 1 FT/FT	EN170 UV 2C-1.2	ANSI-ISEA Z87.1 Z87+ U6	36 g	x 100
PACAYA CLEAR STRAP							41 g	
PACAYA SMOKE	Smoke	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.	ANSI	EN172 UV 5-3.1	ANSI-ISEA Z87.1 Z87+ U6 L3	36 g		
PACAYA T5	Shade 5			EN169 UV 5	ANSI-ISEA Z87.1 Z87+	32 g		



**FlexGrip™ nasal bridge**

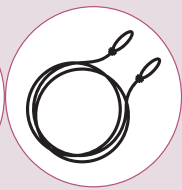
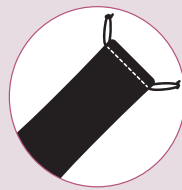
- Optimised comfort
- Perfect fit for all body types

RIMFIRE POLARIZED  
RIMFIRE CLEAR  
RIMFIRE MIRROR



**Polycarbonate frame with matte finish**

- Better comfort and reinforced strength
- RIMFIRE POLARIZED  
RIMFIRE CLEAR  
RIMFIRE MIRROR



RIMFIRE POLARIZED  
RIMFIRE CLEAR  
RIMFIRE MIRROR



## RIMFIRE POLARIZED

Sport look

Ballistic Vo rated for ballistic protection [Impact according to the military standard MIL-PRF-31013]



Without polarised lenses    Polarised glasses

- Reduction of glare and reflections from reflective surfaces (road, water, snow...)

## RIMFIRE CLEAR

Sport look

Ballistic Vo rated for ballistic protection [Impact according to the military standard MIL-PRF-31013]



## RIMFIRE MIRROR

Sport look

Ballistic Vo rated for ballistic protection [Impact according to the military standard MIL-PRF-31013]



RIMFIRE POLARIZED	Polarized			EN172 5-3.1	ANSI Z87.1 Z87+ U6 L3	
RIMFIRE CLEAR	Clear	Polycarbonate glasses. Sport design. Polycarbonate frame with matt finish for better comfort and durability.	CE	EN166 1 F/F	ANSI ANSI Z87.1 Z87+ U6	x 100
RIMFIRE MIRROR	Mirror			EN172 5-3.1		



**Tilting arms**

- Perfect fit to the shape of the face

BLOW2 CLEAR  
BLOW2 LIGHT MIRROR  
BLOW2 MIRROR



**Removable foam protection**

- Very good sealing in dusty environments
- Increased comfort in case of shock

BLOW2 CLEAR  
BLOW2 LIGHT MIRROR  
BLOW2 MIRROR



**Interchangeable attachment : Arms/Elastic**

- Suitable solution for any type of work environment

BLOW2 CLEAR  
BLOW2 LIGHT MIRROR  
BLOW2 MIRROR



**Ventilation**

- Minimises fogging

BLOW2 CLEAR  
BLOW2 LIGHT MIRROR  
BLOW2 MIRROR

**BLOW2 CLEAR**

- Extra large field of vision
- Guaranteed maximum visual comfort



**BLOW2 LIGHT MIRROR**

- Eyepieces Light mirror
- Indoor and outdoor use
- Extra large field of vision
- Guaranteed maximum visual comfort



**BLOW2 MIRROR**

- Extra large field of vision
- Guaranteed maximum visual comfort



BLOW2 CLEAR	Clear	2 in 1 polycarbonate glasses - Interchangeable arms/Elastic. Twin material curved arms. Removable foam. Wide field of vision.	CE	EN166 1FT/FT	EN170 UV 2C-1.2	38 g	x 100
BLOW2 LIGHT MIRROR	Mirror				EN170 UV 2C-1.7		
BLOW2 MIRROR					EN172 UV 5-3.1		





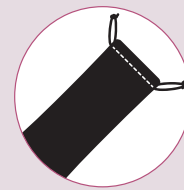
**D-PAD technology**  
 ▶ Optimised comfort  
 ▶ Perfect fit for all body types  
 ASO2 CLEAR  
 ASO2 SMOKE



**Bi-material sports section light and comfortable**  
 ▶ Increased comfort  
 ▶ Very good hold on the head (or on a helmet)  
 ASO2 CLEAR  
 ASO2 SMOKE



**Curved eyepiece**  
 ▶ Maximum protection  
 ▶ Extended field of view  
 ASO2 CLEAR  
 ASO2 SMOKE



ASO2 CLEAR  
 ASO2 SMOKE



**ASO2 CLEAR**



**ASO2 SMOKE**



**VULCANO2 PLUS CLEAR**



**VULCANO2 CLEAR**



**VULCANO2 SMOKE**



ASO2 CLEAR	Clear	Polycarbonate glasses. Sport design. Polycarbonate/ TPR bi-material flexible arms. Nose piece suitable for all body shapes.	CE	EN170 2C-1.2	ANSI-ISEA Z87.1 Z87+ U6	28 g	
ASO2 SMOKE	Smoke			EN166 1 FT KN /FT	EN172 5-2.5		
VULCANO2 PLUS CLEAR	Clear	Polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated TPE nose piece. Side protection.	CE	EN170 UV 2.C-1.2	ANSI-ISEA Z87.1 Z87+ U6	26 g	x 100
VULCANO2 CLEAR				EN166 1 FT/FT	EN172 UV 5-3.1		
VULCANO2 SMOKE	Smoke						

Delta plus considers all possible solutions in concepts and materials to provide the wearer a comfortable fit without pressure points. **Helium 2** ensures features such as wearer comfort, protection, functionality and style providing performance in any situation, lightweight and Flexibility are the key features of **Helium 2**! Wear it! enjoy it!

*Isabelle Dupuis, Head Protection Product Expert*

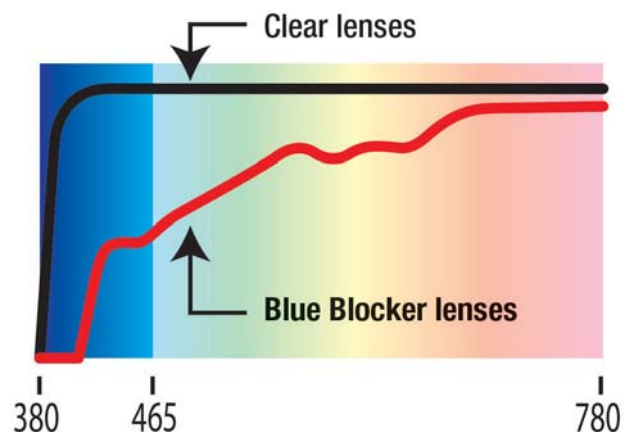


## Ideal for demanding workers who do not like to wear heavy and bulky PPE.

Workplaces such as offices, factories, laboratories increasingly illuminate their spaces with LED lights (light emitting diodes). Almost 50% of the global lighting market will be LED.

We all know that exposure to artificial blue light leads to a range of serious health impacts particularly when you spend long hours in front of screens & smartphones

That's why, it is essential to ensure people know the damages of blue light and have easy access to protective solutions and Helium 2 is one of the solutions!





**Very light: 18 g**  
 HELIUM 2 BLUE BLOCKER  
 HELIUM 2 DETECTABLE  
 HELIUM 2 CLEAR  
 HELIUM 2 SMOKE



**Anti-slip ends**  
 • Increased comfort  
 • Very good hold on the head (or on a helmet)  
 HELIUM 2 BLUE BLOCKER  
 HELIUM 2 DETECTABLE  
 HELIUM 2 CLEAR  
 HELIUM 2 SMOKE



### HELIUM 2 BLUE BLOCKER

Eye piece that filters 65% of blue light to protect the eyes from the harmful radiation from screens

- Reduction of eye strain
  - Anti-slip ends** Extra large field of vision
  - Guaranteed maximum visual comfort
- Extra supple sections



### HELIUM 2 DETECTABLE

Metallically charged blue frame visually detectable by X-ray and magnetism

- Suitable for the food industry
  - Extra large field of vision**
  - Guaranteed maximum visual comfort
- Extra supple sections



### HELIUM 2 CLEAR

- Extra large field of vision**
  - Guaranteed maximum visual comfort
- Extra supple sections



### HELIUM 2 SMOKE

- Extra large field of vision**
  - Guaranteed maximum visual comfort
- Extra supple sections



HELIUM 2 BLUE BLOCKER	Brown				EN170 UV 2C-1.4	ANSI-ISEA Z87.1 Z87+ U6 L1.5	17 g	
HELIUM 2 DETECTABLE	Blue	Ultra light polycarbonate single lens glasses. Integrated polycarbonate nose piece. Thin and flexible metal-free frame. Suitable for long duration wear.	CE	EN166 1 FT/FT	EN170 UV 2C-1.2	ANSI ANSI-ISEA Z87.1 Z87+ U6 L1.3	18 g	x 100
HELIUM 2 CLEAR	Clear						17 g	
HELIUM 2 SMOKE	Smoke							
							EN172 UV 5-2.5	



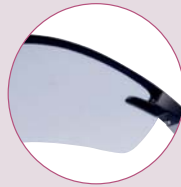
**Extra comfort soft ends**

- Increased comfort
- Very good hold on the head (or on a helmet)

THUNDER CLEAR  
THUNDER SMOKE  
FUJI2 CLEAR  
FUJI2 GRADIENT



THUNDER CLEAR  
THUNDER SMOKE  
FUJI2 CLEAR  
FUJI2 GRADIENT



**Without mount in lower part**

- No visual discomfort

THUNDER CLEAR  
THUNDER SMOKE  
FUJI2 CLEAR  
FUJI2 GRADIENT



**Extra flexible TPE nose bridge**

- Optimised comfort
- Perfect fit for all body types

THUNDER CLEAR  
THUNDER SMOKE  
FUJI2 CLEAR  
FUJI2 GRADIENT

**THUNDER CLEAR**

**THUNDER SMOKE**

**FUJI2 CLEAR**

**FUJI2 GRADIENT**

THUNDER CLEAR	Clear	Ergonomic glasses. Polycarbonate lens. Sports look. Twin material arms. Soft tips. Soft, extra comfort TPE nose piece.	CE	EN166 1FT/FT	EN170 UV 2C-1.2	ANSI ANSI Z87.1 Z87+	30 g
THUNDER SMOKE	Smoke				EN172 UV 5-3.1		
FUJI2 CLEAR	Clear	Polycarbonate twin lens glasses. Twin material arms. Soft tips. Soft TPE nose piece.	CE	EN166 1FT/FT	EN170 UV 2C-1.2	ANSI ANSI Z87.1 Z87+	28 g
FUJI2 GRADIENT	Gradient				EN172 UV 5-1.4:5-1.7		





IRAYA CLEAR  
IRAYA SMOKE  
IRAYA YELLOW



Without mount in lower part  
• No visual discomfort

IRAYA CLEAR  
IRAYA SMOKE  
IRAYA YELLOW



Extra soft nose bridge  
• Optimised comfort  
• Perfect fit for all body types

IRAYA CLEAR  
IRAYA SMOKE  
IRAYA YELLOW



### IRAYA CLEAR

Ultra lightweight frame



### IRAYA SMOKE

Ultra lightweight frame



### IRAYA YELLOW

Ultra lightweight frame



IRAYA CLEAR	Clear	Polycarbonate glasses. Sport design. Polycarbonate frame with matt finish for better comfort and durability.	CE	EN170	ANSI-ISEA Z87.1	24 g	x 100	
IRAYA SMOKE	Smoke			UV 2C-1.2	Z87+ U6			
IRAYA YELLOW	Yellow			EN166 1 FT/FT	ANSI-ISEA Z87.1 Z87+ U6 L3			
				EN172 UV 5-3.1	ANSI			
				EN170 UV 2C-1.2	ANSI-ISEA Z87.1 Z87+ U6			

**MEIA CLEAR**



**MEIA SMOKE**



**MEIA YELLOW**



**MILO CLEAR**



**MILO SMOKE**



MEIA CLEAR	Clear	Single lens polycarbonate glasses. Integrated polycarbonate nose piece. Polycarbonate arms. Non-slip PVC tips.	CE	EN170 <b>UV2C-1.2</b>	ANSI Z87.1 <b>Z87+ U6</b>	22 g	x 100
MEIA SMOKE	Smoke			EN172 <b>UV5-3.1</b>			
MEIA YELLOW	Yellow						
MILO CLEAR	Clear	Single lens polycarbonate glasses. Integrated polycarbonate nose piece. Polycarbonate arms. Metal free: dielectric. Ultra light: 18 g. Ultra flexible.	EN166 <b>1FT/FT</b>	EN170 <b>UV2C-1.2</b>	ANSI Z87.1 <b>Z87+ U6 L3</b>	18 g	
MILO SMOKE	Smoke			EN172 <b>UV5-3.1</b>			



**Side shields**  
EGON CLEAR  
EGON LIGHT MIRROR  
EGON SMOKE  
EGON YELLOW



**Extra temple sections**  
EGON CLEAR  
EGON LIGHT MIRROR  
EGON SMOKE  
EGON YELLOW



**Nasal bridge TPE soft extra comfort**  
EGON CLEAR  
EGON LIGHT MIRROR  
EGON SMOKE  
EGON YELLOW



**EGON CLEAR**



**EGON LIGHT MIRROR**



**EGON SMOKE**



**EGON YELLOW**



EGON CLEAR	Clear	Ergonomic glasses. Polycarbonate lens. Sport look. Twin material arms. Extra comfort soft TPE nose piece.	CE	EN166 1FT/FT	EN170 UV2C-1.2	ANSI ANSI-ISEA Z87.1 Z87+	32 g	x 100
EGON LIGHT MIRROR	Mirror				EN170 UV2C-1.7			
EGON SMOKE	Smoke				EN172 UV5-3.1			
EGON YELLOW	Yellow				EN170 UV2C-1.2			



**Non metallic hinge**  
KISKA2 CLEAR  
KISKA2 SMOKE



**Extra soft nose bridge**  
KISKA2 CLEAR  
KISKA2 SMOKE  
LIPARI2 CLEAR  
LIPARI2 T5

**LIPARI2 CLEAR**



**LIPARI2 T5**



**KISKA2 CLEAR**

Extra fine metal free frame  
Ultra lightweight frame  
Ultra-light : 20 g



**KISKA2 SMOKE**

Extra fine metal free frame  
Ultra lightweight frame  
Ultra-light : 20 g



LIPARI2 CLEAR	Clear	Polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated TPE nose piece. Side protection.	CE	EN170 UV 2C-1.2	ANSI	ANSI-ISEA Z87.1 Z87+	34 g	x 100
LIPARI2 T5	Shade 5			EN169 UV 5				
KISKA2 CLEAR	Clear	EN170 UV 2C-1.2		ANSI	ANSI-ISEA Z87.1 Z87+ U6	20 g		
KISKA2 SMOKE	Smoke	EN172 5-2.5		ANSI	ANSI-ISEA Z87.1 Z87+ U6 L2.5			



**BRAVA2 CLEAR AB**



**BRAVA2 CLEAR**



**BRAVA2 YELLOW**



**BRAVA2 LIGHT MIRROR**



**BRAVA2 MIRROR**



**BRAVA2 SMOKE**



BRAVA2 CLEAR AB	Clear	<p>Polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection.</p>		EN170 <b>UV 2C-1.2</b>	ANSI-ISEA Z87.1 <b>Z87+ U6</b>	25 g	x 100
BRAVA2 CLEAR				EN170 <b>UV 2C-1.7</b>	ANSI-ISEA Z87.1 <b>Z87+ L 1.7</b>		
BRAVA2 YELLOW	Yellow			EN172 <b>UV 5-2.5</b>	ANSI-ISEA Z87.1 <b>Z87+ U6 L2.5</b>		
BRAVA2 LIGHT MIRROR	Mirror			EN172 <b>UV 5-3.1</b>	ANSI-ISEA Z87.1 <b>Z87+ U6 L3</b>		
BRAVA2 MIRROR				Smoke			
BRAVA2 SMOKE							

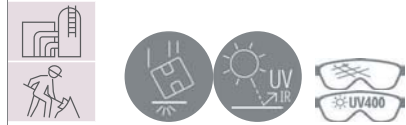
**KILIMANDJARO CLEAR AB**



**KILIMANDJARO CLEAR**



**KILIMANDJARO SMOKE**



**FUEGO**

Adjustable arms (1)



**PITON 2 CLEAR**



KILIMANDJARO CLEAR AB	Clear	Polycarbonate single lens glasses. Adjustable nylon arms. Side protection.	CE	EN170 UV 2C-1.2	ANSI ANSI Z87.1 Z87+	32 g	
KILIMANDJARO CLEAR				EN172 UV 5-3.1			
KILIMANDJARO SMOKE				Smoke			
FUEGO	Clear	Clear polycarbonate single lens glasses to use as an accessory for safety helmet. Wraparound design for maximum protection. Folding system in the helmet when it is not used, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.	EN166 1 FT/FT	EN170 UV 2C-1.2		34 g	x 100
PITON 2 CLEAR		Polycarbonate single lens glasses. Modern and sport design. Side protection. Open arms for lateral ventilation. Hole in arms for neck cord.				30 g	



HEKLA2



PITON CLEAR



HEKLA2	Clear	Single lens polycarbonate over glasses. Side shields. Integrated polycarbonate nose piece. Flexible polycarbonate arms. Suitable for all types of prescription glasses.	CE	EN166 1FT/FT	EN170 UV2C-1.2	ANSI-ISEA Z87.1 Z87+ U6	34 g	x 100
PITON CLEAR		Clear polycarbonate single lens glasses. Direct side ventilation. Side protection. Hole in arms for neck cord.				ANSI Z87.1 Z87+	44 g	

### SAJAMA

Soft frame made of TPE (1)

• Prolonged comfort of use

**Neoprene headband**

• Resistant to chemicals

**PVC free and phthalate free**

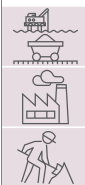
• Reduced risk of allergy



### GALERAS CLEAR

Tilting elastic (1)

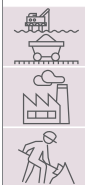
• Very good support



### GALERAS SMOKE

Tilting elastic (1)

• Very good support

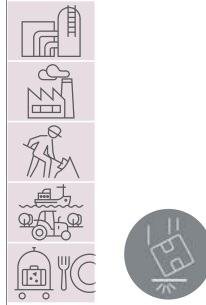


SAJAMA	Clear	Clear polycarbonate goggles, indirect ventilation. Antiscratch K and antifog N treatments. TPE flexible frame for long-lasting comfort. Chemicals-resistant neoprene band.	CE	EN166 <b>1 BT KN 3 4 BT</b>	EN170 <b>2C-1.2</b>	ANSI-ISEA Z87.1 <b>Z87+ U6 D3 D4</b>	92 g	x 60
GALERAS CLEAR		Polycarbonate goggles. Indirect ventilation. Flexible PVC and nylon frame. Panoramic screen. Adapted to wear with glasses and disposable respiratory half-masks. Wide elastic strap.		EN166 <b>1 BT 3 4 BT</b>		ANSI-ISEA Z87.1 <b>Z87+ U6 D3</b>	104 g	
GALERAS SMOKE	Smoke				EN172 <b>UV 5-3.1</b>	ANSI-ISEA Z87.1 <b>Z87+ U6 L3 D3</b>		

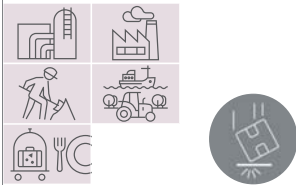
**RUIZ 1 ACETATE**



**RUIZ 1**



**MURIA 1**



**FILM GOGGLE**









RUIZ 1 ACETATE	Clear	Clear acetate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap. Resistant to chemical products splashes.	CE	EN166 1 FT/3 FT		86 g	x 60
RUIZ 1		Clear polycarbonate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap.		EN166 1 B/3 B	ANSI Z87.1 Z87		
MURIA 1		Clear polycarbonate goggles. Flexible PVC frame. Direct ventilation. Textile elastic strap.		EN166 1 B/B	ANSI-ISEA Z87.1 Z87+		
FILM GOGGLE		Box of 10 sets of protective film to protect screens of goggles. Each set is made of 3 layers of films.					





# Welding

	 <b>BARRIER2</b> EN166 / EN175 / EN379	 <b>SCREEN</b> EN166 / EN175 / EN379	 <b>CASOUD2HE</b> EN166 / EN169 / EN175	 <b>CASOUD3</b> EN166 / EN169 / EN175
	 <b>TOBA3 T5</b> EN166 / EN169 / EN175	 <b>LIPARI2 T5</b> EN166 / EN169	 <b>PACAYA T5</b> EN166 / EN169	

WELDING	MMA	MIG	MAG	TIG	TORCH	PLASMA	LASER
<b>Process</b>	Electric arc + Electrode 			Electric arc + Electrode Tungsten 	Torch flame 	Electric arc + Electrode 	Laser ray 
<b>Gas supply</b>	No	Inert protective gas (Argon or Helium)	Active protective gas (Argon/CO <sub>2</sub> or Argon/Oxygen)	Neutral gas (Argon)	Fuel gas (acetylene, propane, butane or methane) + Combustion gas (oxygen - hydrogen or natural gas)	Argon (principal) + Hydrogen or Helium (annular)	No
	3 500°C to 7 000°C			3 500°C	3 150°C	15 000°C to 25 000°C	
<b>Metal supply</b>	Yes (melting electrode)	Yes (metal coil)		Yes (Filler metal rod)	Yes	Non	No
<b>Example of jobs using these process</b>	Craftsmen, locksmiths, metal workers, coachbuilders	Steel structure, boilermaking, metalwork / ironworks, railway and naval construction		Boilermaking, metalwork / ironworks	Plumbers, heating engineers, cold storage, locksmiths	Aeronautics, light and pharmaceutical Industry	Light and pharmaceutical Industry
<b>Materials</b>	Steel, stainless steel, cast iron, aluminum	Pure steel or weakly alloyed*	Stainless steel and copper alloy*	All type of metals (except light aluminum alloy*)	Copper, tin, brass, aluminum, zinc	Steels, stainless steel, aluminum and alloy*	Metals and plastics
<b>Thickness</b>	2 mm to 10 mm	0,5 mm to 10 mm		0,3 mm to 6 mm	Less than 2 mm	Micro plasma : 0,01 to 1 mm Plasma : 1 to 3 mm Unblocking spray plasma: 3 mm to 8 mm	2 mm to 8 mm
<b>Features</b>	Economical and good quality welding	High speed, regular and good quality welding bead		"Clean" welding, very high quality, slow process	Easy to settle, stand alone device. Easy to learn but average aspect.	Quality welding (fine and precise). Possibility of automatic process but rather slow. + Possibility to cut pieces	"Clean" and very high quality but expensive welding process + Cut of pieces in large series

\* An alloy is the combination of a metallic element with one or several other chemical elements by melting, with the aim of modifying the mechanical properties of the basic metal.

Examples of known alloys :

- Cast iron: iron + carbon (between 2,1 and 6,7 % in carbon mass)

- Steel: iron + carbon (less than 2,1 % in carbon mass)

- Brass: copper + zinc / Bronze: copper + tin

## BARRIER 2

High performance optical class (1)

• Less visual fatigue

Field of view 100 x 67 mm (2)

• Guaranteed maximum visual comfort

4 independent sensors (3)

• Increased product reactivity in all positions and in confined spaces

Settings : sensitivity, hue selection, switching time (4)

• Guaranteed user comfort for all TYPES of welding

Replaceable exterior protection screen (5)

• Easy replacement of damaged screens

Replaceable batteries (CR2032) + Low battery indicator (6)

• Increased longevity

Grinding/soldering mode

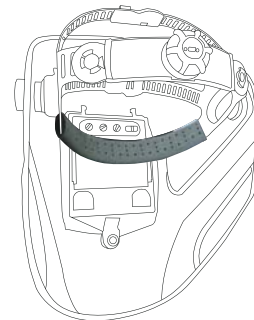
• 2 applications for a single product



## BARRIER PLATE 2



## BASWELD



BARRIER 2	Black-Grey	Helmet for electric arc welding with self-obscuring screen. Can be used for MIG, MAG, TIG and plasma welding requiring 9 to 13 shade protection. Can be used in shade 5 to 9 for low intensity or flame welding. Can be used for grinding in shade 4.	CE	EN379 1/1/1/2 / 4/5-9/9-13	ANSI-ISEA Z87.1 Z87 W4/5-9/9-13	500 g	x 6
BARRIER PLATE 2	Clear	Pack of 5 exterior spare screens for BARRIER 2 helmet in polycarbonate.		EN166 1B	EN175 B	38 g	x 100
BASWELD	Black	Bag of 10 sweat bands for BARRIER 2 and SCREEN welding shields.				5 g	x 20

**SCREEN**

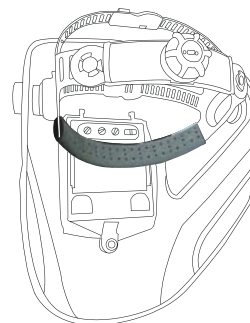
High performance optical class (1)

External adjustment of the shade (2)

• One-handed adjustment with or without gloves

Replaceable batteries (CR2032) (3)

• Increased longevity

**SCREEN PLATE****BASWELD**

SCREEN	Black	Helmet for electric arc welding with self-obscuring screen. Can be used for MIG, MAG, TIG and plasma welding requiring 9 to 13 shade protection.	EN379 1/1/1/2 / 4/9-13	ANSI-ISEA Z87.1 Z87 W4/9-13	474 g	x 6
SCREEN PLATE	Clear	Pack of 5 exterior spare screens for SCREEN helmet in polycarbonate.	EN166 1F	EN175 F	14 g	x 150
BASWELD	Black	Bag of 10 sweat bands for BARRIER 2 and SCREEN welding shields.			5 g	x 20

**Delta Plus provides protection at work from head to toe for both women and men**

### CASOUD2HE



### CASOUD 3



Black	Polypropylene welding face shield, to be used on safety helmets. For all types of welding that requires shade 11 protection. Sold ready to use: fixed screen equipped with one clear polycarbonate filter (FILTER-IN), flip-up screen equipped with one shade 11 filter (FILTER-11), protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	CE	EN166 <b>1F/S</b>	304 g	x 10	Black	Helmet for all types of welding that requires shade 11 protection. Headband. Sold ready to use: fixed screen equipped with one clear polycarbonate filter (FILTER-IN), flip-up screen equipped with one 11 filter (FILTER-11), protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	CE	EN166 <b>1F/F</b>	415 g	x 6
			EN169 <b>11</b>						EN169 <b>11</b>		
			EN175 <b>S</b>						EN175 <b>F</b>		

### FILTER-IN



### FILTER 11



Clear	Pack of 5 clear polycarbonate filter, 108 x 51 mm. to be fitted on CASOUD3 welding helmet and CASOUD2HE welding shield. Thickness: 1,8 mm.	CE	EN166 <b>1F/F</b>	140 g	x 20	Green	Pack of 5 shade 11 mineral filter, 108 x 51 mm. to be fitted on CASOUD3 welding helmet and CASOUD2HE welding shield. Thickness: 3 mm.	CE	EN166 <b>1</b>	240 g	x 20
									EN169 <b>11</b>		

### TOBA 3 T5



Red	Welding goggles. Flip-up screen. Flexible PVC frame. Indirect ventilation. Elastic strap. Clear polycarbonate inside lens. Shade 5 polycarbonate upper lens with clear polycarbonate reinforcement lens.	CE	EN166 <b>1FT N FT</b>	EN169 <b>5</b>	EN175 <b>F</b>	132 g	x 60
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### PACAYA T5



### LIPARI2 T5






























Shade 5	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.	CE	EN166 <b>1FT/FT</b>	ANSI-ISEA <b>Z87.1 Z87+</b>	32 g	x 100	Shade 5	Polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated TPE nose piece. Side protection.	CE	EN166 <b>1FT/FT</b>	ANSI-ISEA <b>Z87.1 Z87+</b>	34 g	x 100
			EN169 <b>UV5</b>						EN169 <b>UV5</b>				





# Visor

 <p><b>VISOR H</b> EN1731 / EN166</p>	 <p><b>VISOR HOLDER</b> EN1731 / EN166</p> <p>DIAMOND QUARTZ ZIRCON</p>	 <p><b>VISOR HOLDER MINI</b> EN1731 / EN166</p> <p>GRANITE</p>	 <p><b>VISOR U</b> EN166</p> <p>QUARTZ ZIRCON</p>
 <p><b>VISOR FLASH</b> EN170 UV 2C-1.7 / EN166</p>	 <p>GS-ET 29 <b>1FT 8-1-1</b> CLASS 1 (3.2 CAL/CM²)</p>	 <p>GS-ET 29 <b>1FT 8-2-1</b> CLASS 2 (10.1 CAL/CM²) ASTM <b>F2178</b> (14 CAL/CM²)</p>	 <p>GS-ET 29 <b>1FT 8-2-1</b> CLASS 2 (10.1 CAL/CM²) ASTM <b>F2178</b> (14 CAL/CM²)</p>
 <p><b>VISOR TORIC</b> EN170 UV 2C-1.2 / EN166</p>	  <p><b>1 AT 389</b></p>	 <p><b>1 AT 389</b></p>	 <p><b>1 AT 389</b></p>
 <p><b>VISOR TORIC T5</b> EN169 5 / EN166</p>	 <p><b>1 AT 39</b></p>	 <p><b>1 AT 39</b></p>	 <p><b>1 AT 39</b></p>
 <p><b>VISORPC</b> EN166</p>	  <p><b>BALBI2</b> EN166 <b>1 BT 3</b></p>	 <p><b>1 BT 3</b></p>	 <p><b>1 BT 3</b></p>
 <p><b>VISORG</b> EN1731 F</p>	  <p><b>PICO2</b> EN1731 F/F</p>	 <p><b>F</b></p>	 <p><b>F</b></p>

### VISOR HOLDER

Compatible with earmuffs



### VISOR-HOLD MINI

Compatible with earmuffs



### VISOR-H



### VISOR-U



VISOR HOLDER	Black	Faceshield holder suitable for ZIRCON, QUARTZ and BASEBALL DIAMOND safety helmets. To combine with VISORPC, VISORG, VISOR-TORIC and VISOR FLASH visors, universal fixing.	CE	EN166 3 BT 389 AT	GS-ET 29  8-1 FT	ANSI-ISEA Z87.1 Z87+ D3 	86 g	x 20
VISOR-HOLD MINI		Faceshield holder suitable for GRANITE WIND and GRANITE PEAK safety helmets.		EN166 3 BT	EN1731 F		74 g	
VISOR-H	Grey	Faceshield with front protection. Innovative adjustable ROTOR system: head sizes 53 to 63 cm.		EN166 3 BT 389 AT			180 g	x 25
VISOR-U	Black	Dielectric faceshield holder suitable for safety helmets and visors.		EN166 389 AT	GS-ET 29  8-2 FT	ANSI-ISEA Z87.1 Z87+ 	86 g	x 100

# Protecting the face against the risk of electric arcs adapted to DELTA PLUS safety helmets\*

## \* except Granite / Diamond VI range

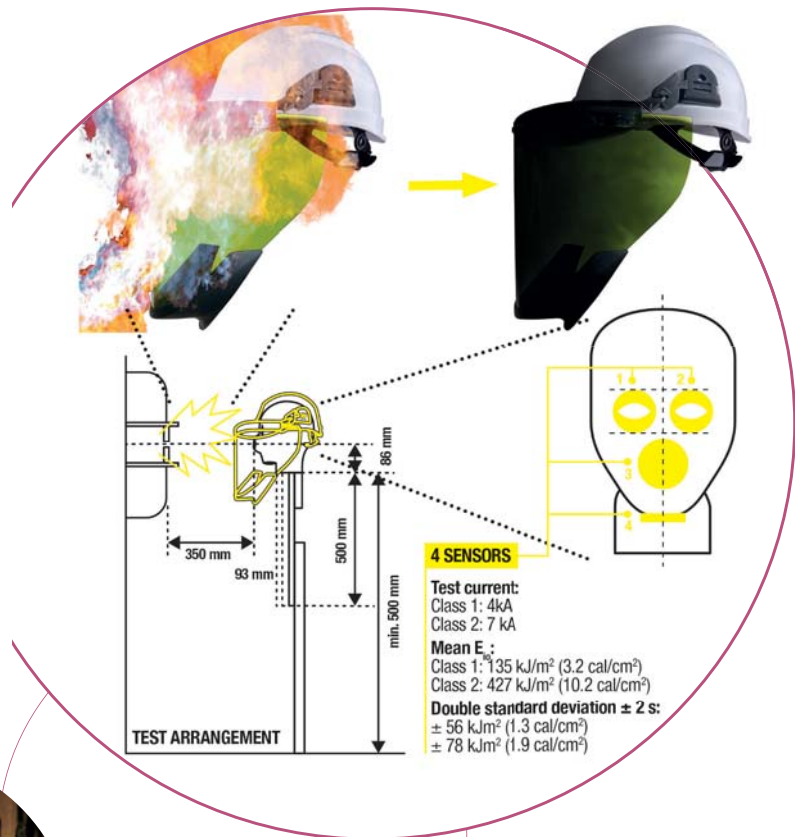
### What is an Arc Flash ?

It is a short circuit that bursts from a live conductor exposed to another or to the ground, resulting in a large electrical discharge driven by the ambient air. The phenomenon ionises the air, which becomes almost as conductive as metal. This sudden and massive energy release is like an explosion, generating temperatures that can reach 20,000°C locally. That is 4 times hotter than the surface of the sun. This immense energy can melt and vaporise metals and other materials almost instantly, blowing them with hot gases in the immediate vicinity, destroying the electrical equipment involved and causing injuries to people working nearby.



**What causes a Arc Flash ?** Usually limited to electrical systems larger than 480 volts, an Arc Flash may be caused by improper handling or by components such as switches, terminating conductors, fuses, circuit breakers, relay contacts, bus-bars or other defective components. Particularly due to poor maintenance, humidity, dust and corrosion for example.

**Where to start ?** It is important to systematically conduct a risk analysis of the equipment and the workstation before any operation ! This analysis must be carried out by a qualified person and makes it possible to evaluate the level of risk and the equipment necessary for the intervention, in particular the choice of Personal Protective Equipment.



**Who may be exposed ?** Industrial electricians and technicians in distribution or electrical maintenance.

### What are the effects ?

Rapid release of energy and heat : a fireball exploding toward the outside that can cause irreversible burns.

Blinding light.

Shockwave : a blast that strikes violently in a frontal way.

Sound wave : hearing disorders and acoustic trauma.  
Sudden spraying of molten metals and incandescent shrapnel in all directions.



The visors on the market were very cumbersome with imposing chin protectors that bothered workers. The **VISOR FLASH** has been designed for ease of use. An essential point was the mobility of the user during his tasks. The chin protector has been modified three times until we got the best combination of protection and freedom of movement of the head. The curved design at the bottom of the chin guard helps deflect the arc explosion and rests comfortably on the torso during work. In addition, we have retained excellent lateral protection while reducing the overall weight of the visor. Simultaneously with **VISOR FLASH**, we created the **VISOR-U Visor Holder**, moving the pivot point further back on the worker's safety helmet. This lightweight combination makes **VISOR FLASH** more acceptable and makes it easier to use in an already challenging work environment.

**Rick Rustello**, Arc Flash Specialist

## VISOR FLASH

Protection : 14cal/ cm<sup>2</sup> (ASTM)

► Maximum protection from electric arcs

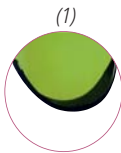
Curved chin protector (1)

► No discomfort in the user's movements

Light green shade provides 55% visible light transmission

► Preserved colour perception

► Elevated perceived brightness



 						 			
VISOR FLASH	Green	Polycarbonate injected visor, against electric arc and thermal risk. Green shade for better transmission of light.		EN166 1FT8	EN170 UV2C-1.7	GS-ET 29  VISOR-U 8-2-1 VISOR-HOLDER 8-1-1 CLASS-VISOR-U:2 VISOR-HOLDER:1	 ASTM F 2178-12 14 cal/cm <sup>2</sup> 1+2	230 g	x 25
							 ANSI Z87.1 Z87+ U6 L1.7		



**VISOR TORIC CLEAR**

Marking (EN170)

2C-1,2 = UV resistance (1)

Anti-scratch

▶ Increased lifespan

Spherical visor

▶ Extra large field of vision

Injected polycarbonate

▶ Maximum impact resistance

**VISOR TORIC T5**

Marking (EN169)

5 = UV and IR resistance

Spherical visor

▶ Extra large field of vision

Injected polycarbonate

▶ Maximum impact resistance

**VISOR T-GUARD**

VISOR TORIC CLEAR	Clear	Polycarbonate injected visor. Thickness 1,9/2,0 mm. Electric Arc protection. Universal fixing. Suitable for faceshield holder VISOR HOLDER, VISOR-H, VISOR-U. 39 x 20 cm.	CE	EN166 1AT 89	EN170 UV 2C-1.2	ANSI-ISEA Z87.1 Z87+ U6 D3	162 g	x 20
VISOR TORIC T5	Green shade 5			EN166 1AT 9	EN169 UV 5		ANSI-ISEA Z87.1 Z87+ U6 W5 D3	
VISOR T-GUARD	Clear	Polycarbonate chin protection to be fixed on VISOR TORIC visor.				46 g		

**VISORPC**



**VISORG**



Clear	Pack of 2 clear polycarbonate visors with plastic edge. Universal fixing. Suitable for BALBI2, PICO2, VISOR-H and VISOR HOLDER faceshield holder. 39 x 20 cm.	EN166 <b>1BT</b>  ANSI-ISEA Z87.1 <b>Z87+D3</b>	100 g	x 20	Black	Pack of 2 gauze visors with plastic edge. Universal fixing. Suitable for BALBI2, PICO2, VISOR-H, VISOR HOLDER and VISOR HOLDER MINI faceshield holders. 39 x 20 cm.	EN1731 <b>F</b>	100 g	x 20
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**BALBI 2**



**PICO 2**



Yellow	Faceshield with front protection + VISORPC visor: clear polycarbonate visor with plastic edge. 39 x 20 cm.	EN166 <b>1BT/3BT</b>	260 g	x 20	Yellow-Black	Faceshield with front protection + VISORG visor: mesh visor with plastic edge. 39 x 20 cm.	EN1731 <b>F/F</b>	262 g	x 20
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# Helmet

All our helmets have standard fitting for all accessories.

	ONYX	GRANITE WIND	GRANITE PEAK	DIAMOND VI	DIAMOND V UP	DIAMOND V	SUPER QUARTZ	QUARTZ UP IV	QUARTZ UP III	FORESTIER3	QUARTZ I	ZIRCONI
COLOURS												
ADJUSTMENT												
VENTILATION												
ELECTRICAL INSULATION												
EN397	MM	MM	MM	MM	MM	MM	MM	MM	MM			
LD	-LD-			-LD-	-LD-	-LD-	-LD-					
TEMPERATURE	+50°C / -20°C	+50°C / -20°C	+50°C / -20°C	+50°C / -30°C	+50°C / -30°C	+50°C / -30°C	+150°C / -30°C	+50°C / -30°C	+50°C / -30°C	+50°C / -10°C	+50°C / -10°C	+50°C / -10°C
EN30365												

## Customise your safety helmets!



- The logo sent must be in vectorised format (.eps, .ai, or .pdf) and must not have different colour background of the chosen helmet.
- For logos in colours, please indicate the pantone reference for each colour.
- Warning: the colours of the logos can be slightly changed according to the colour of helmets. To have the same colour as your logo, we recommend that you choose white helmets.
- It is impossible to do gradient colours in pad printing.
- Minimum of order: 40 pieces per colour for all orders in Europe.
- Maximum number of colours: 4
- The space to put the logo may not exceed dimensions shown on the table below:

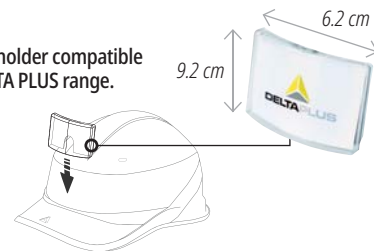


## Bump cap

	KAIZIO	AIR COLTAN	COLTAN
EN812			
COLOURS			
VISOR LENGTH (CM)	5	3/5/7	5/7 3/7 7

### BADGEU

Removable badger holder compatible  
With the whole DELTA PLUS range.



	ZIRCON	QUARTZ - SUPER QUARTZ	GRANITE	DIAMOND	ONYX
Front	 70 x 40 mm	 70 x 40 mm	 70 x 40 mm	 70 x 40 mm	 70 x 40 mm
Back	 60 x 20 mm	 60 x 35 mm		 60 x 20 mm	 60 x 35 mm
Sides	 40 x 20 mm	 60 x 20 mm		 70 x 40 mm	



**One-D Rotor ergonomic clamping system**

- One-handed adjustment with or without gloves
- GRANITE WIND  
 GRANITE PEAK



**Chin Strap 3 removable attachment points**

- Optimal support of the helmet
  - High comfort
- GRANITE WIND  
 GRANITE PEAK



**Replaceable thermoformed sweat band**

- Increased comfort
  - Good absorption of perspiration
- GRANITE WIND  
 GRANITE PEAK



**Polyamide cradle : 3 fabric bands with 8 attachment points**

- Comfort of use guaranteed
- GRANITE WIND  
 GRANITE PEAK



**GRANITE WIND**

- Fins system (1)**
- Optimised ventilation with increased protection from projections
- Design without visor**
- For work at height with an optimal field of vision



**GRANITE PEAK**

- Design without visor**
- For work at height with an optimal field of vision



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**BASGAMMA**

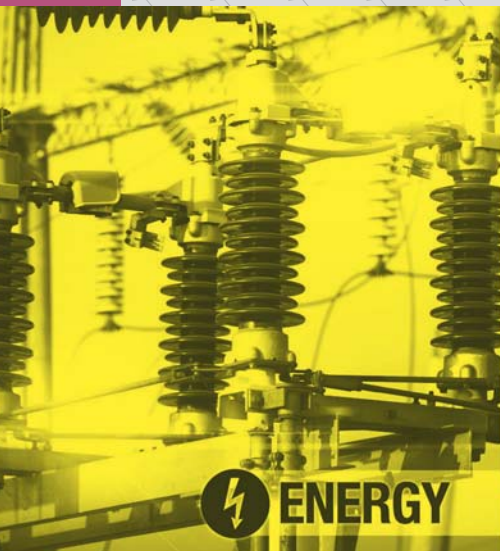
P.41



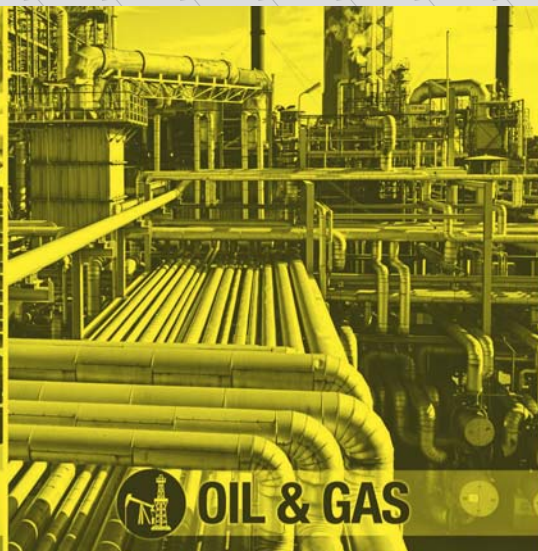
**JUGGAMMA**

GRANITE WIND	Yellow White Blue Orange Red	Ventilated ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide cradle: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR system : head sizes 53 to 63 cm. Sold with 3 point chin strap.		EN397 MM -20°C +50°C	368 g
GRANITE PEAK	Yellow White Blue	ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide cradle: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR system : head sizes 53 to 63 cm. Sold with 3 point chin strap. Specially designed for working at height. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C.	CE	EN397 MM -20°C +50°C 440VAC EN50365 CLASS 0	350 g x 10

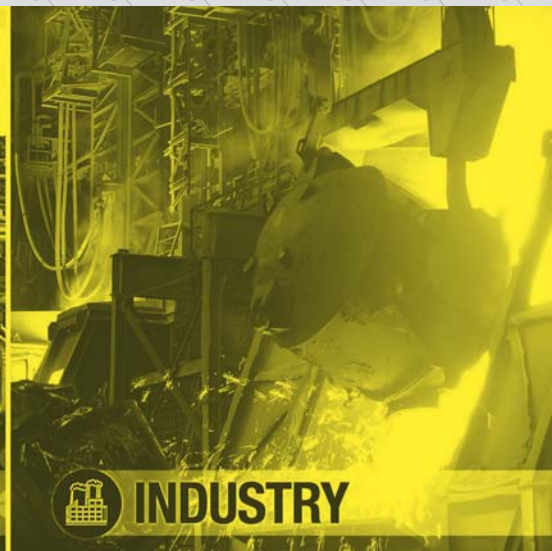




**ENERGY**



**OIL & GAS**



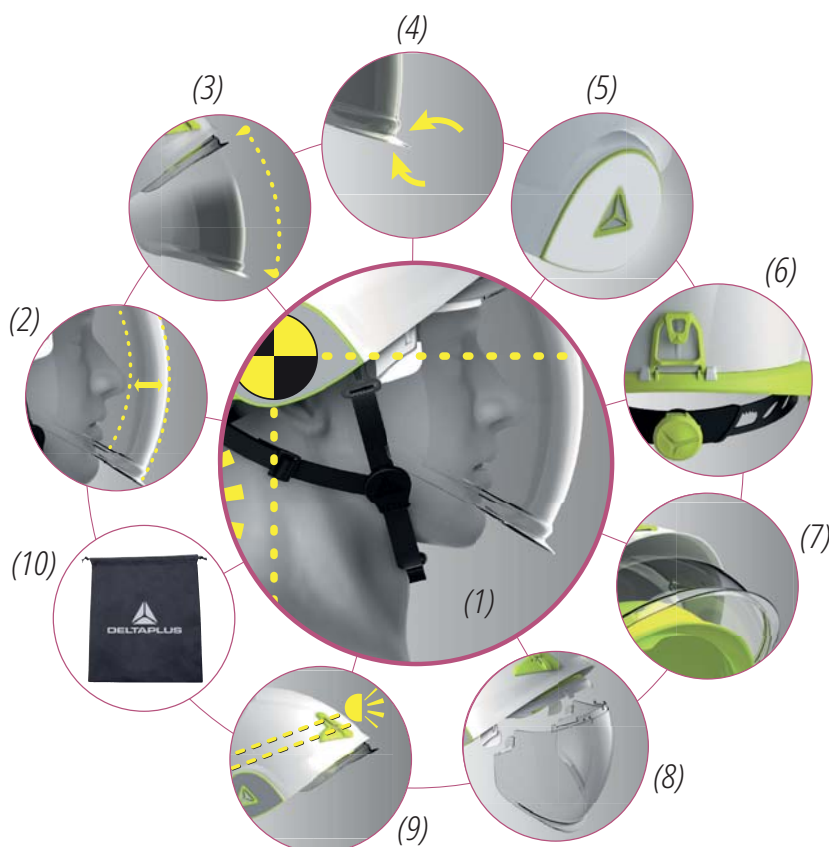
**INDUSTRY**

## A modern design inspired by the world of sport offering dual protection for harsh work environments and electric hazards at a price accessible to all users.

EUROPEAN STANDARD : EN166 - 8  
GS-ET 29  
Class 1 : 4 kA - 155 kJ.m<sup>-2</sup>  
(3.7 cal.cm<sup>-2</sup>)

*The challenge in the development of **ONYX** was to obtain a compact and easy to use product while keeping a comfortable distance between the face and the visor in low position. We managed this with an average of over 2 cm between the user's nose and the visor. The simplicity of use is at the meeting: no spring or complicated locking system for the kinematics of the visor.*

**Isabelle DUPUIS,**  
Head Protection  
Product Expert



## ONYX

### Integrated visor

- Compact and combined solution

### Balanced centre of gravity (1)

- For a prolonged use
- Reduction of musculoskeletal disorders (MSDs)

### Comfortable distance between the visor and the user's face (2)

- Good ventilation, prevents fogging
- Compatible with glasses

### Easy locking of the visor in two positions (3)

- Optimum safety: The visor does not rise or fall unexpectedly

### Optimised visor grip area (4)

- Guaranteed use and manoeuvrability with or without gloves

### Lateral reflectivity (5)

- For more visible workers

### One-D Rotor ergonomic clamping system (6)

- One-handed adjustment with or without gloves

### ABS double shell (7)

- Improved robustness, resistance to lateral deformation: increased protection

### Replaceable visor (8)

- Easy replacement of damaged visors

### Clips to hold a headlamp (9)

- Designed to attach a headlamp with an elastic headband

### Polyamide cap : 3 textile headbands with 6 attachment points and adjustable headband in high or low position

- Better weight distribution in the case of shock and guaranteed user comfort

### Microfibre storage bag (10)

- Easy storage for a longer product life

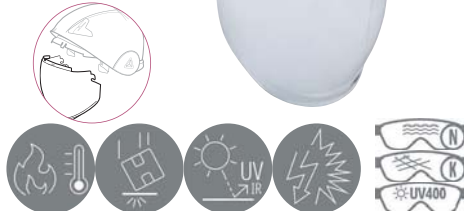


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### DYNAMIC JUGBETA



## VISONYXPR



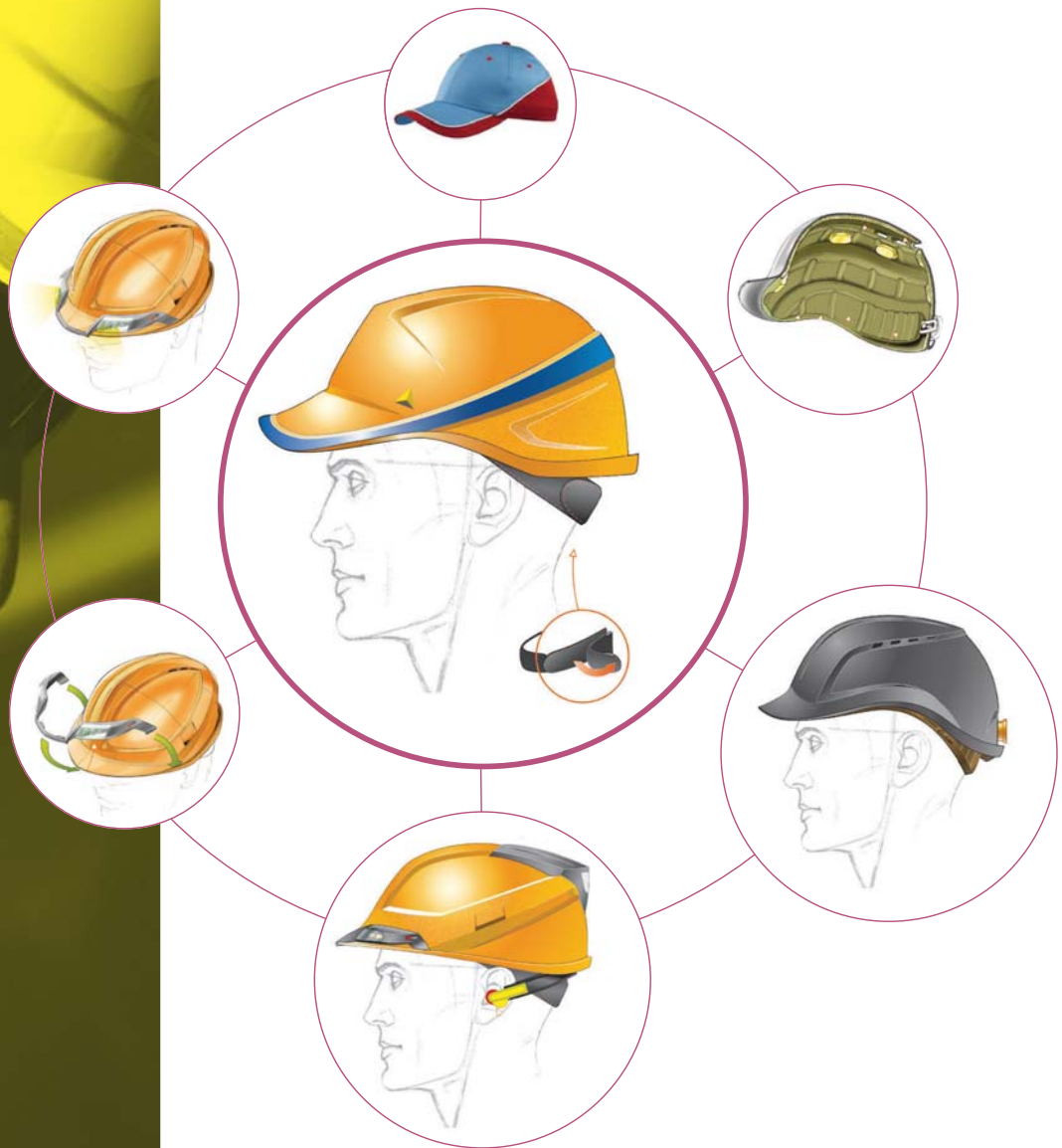
## HARNESS O



ONYX	White	ABS dual shell safety helmet with PC retractable visor. Sport and dynamic design. 3 textile straps with 6 fixing points. Foam sweat band. One-D Rotor clamping system: head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Retro-reflective stickers. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C, protection against arc fault Class 1 (GS-ET 29). Visor with anti-Fog N and anti-scratch K treatments and protection against electrical arcs, and molten metals or hot liquids projections.	CE	EN397 MM LD -20°C +50°C 440VAC	EN166 1AT 8 9 KN 3 8 9 AT	GS-ET 29  8-1-0 CLASS 1 CLASS 0 8-1	ANSI ANSI-ISEA Z87.1 Z87+ U6 D3	ANSI-ISEA Z89.1 TYPE 1 CLASS E 53-63 cm	774 g	x 6
VISONYXPR	Clear	Spare polycarbonate injected visor for double-shell ONYX helmet.	CE	EN166 1AT 8 9 KN 3 8 9 AT	EN170 2C-1.2	GS-ET 29  8-1-0 CLASS 1 CLASS 0 8-1	ANSI ANSI-ISEA Z87.1 Z87+ U6 D3		134 g	x 20
HARNESS O	Black	Bag of 6 spare harnesses for ONYX safety helmet. Textile lining, foam sweat band, adjustment with One-D Rotor knob system.							70 g	x 10

# The Iconic helmet in construction and industry with its One size design.

The lines underline the sporting kinship and make the helmet stand out in the competition while respecting the codes of the construction helmet.



Inspiration: Baseball Cap  
Casual Textile Look



## DIAMOND VI WIND

### Vented helmet (1)

- Breathability that allows comfortable extended wearing

### Wider shell and bigger headband (2)

- Suitable for all face TYPES with improved ergonomics

### Short curved peak (3)

- Better vertical field of view for more safety

### Also certified for reverse wearing (4)

- Maximum field of vision without visor

### One-D Rotor ergonomic clamping system (5)

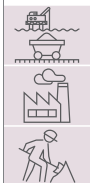
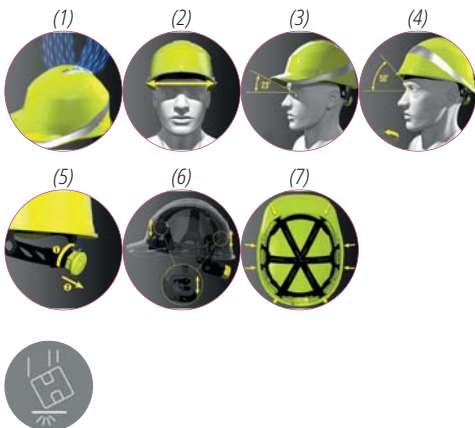
- One-handed adjustment with or without gloves

### 2 headband settings (high / low) (6)

- Universal fit

### Polyamide cradle : 3 fabric bands with 8 attachment points (7)

- Comfort of use guaranteed



<p>DIAMOND VI WIND</p>	<p>Yellow White Blue Red Green Orange Black</p>	<p>ABS vented safety helmet. Innovative "baseball cap" shape to improve vision when looking up. Tested in normal wearing and reverse wearing to reduce encumbrance. Polyamide cradle: 3 textile straps with 8 fixing points. Foam sweat band. Adjustable ROTOR system : head sizes 53 to 64 cm. 2 possible positions of the headband (top/low) for a better comfort.</p>	<p>CE</p> <p>EN397 MM LD -30°C +50°C</p> <p>ANSI I-SEA Z89.1 TYPE I CLASS C Reverse wearing</p> <p>374 g x 20</p>



### DIAMOND V

Neon colours and silver band (1)

• To be better seen at your workstation

**Also certified for reverse wearing (2)**

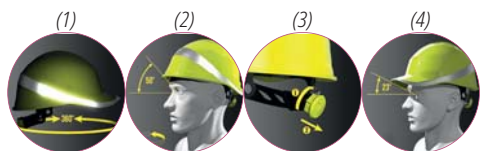
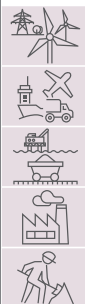
• Maximum field of vision without visor

**One-D Rotor ergonomic clamping system (3)**

• One-handed adjustment with or without gloves

**Very curved visor (4)**

• Best field of view at height



### DIAMOND V UP

**One-D Rotor ergonomic clamping system (1)**

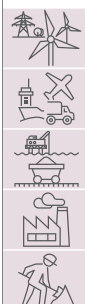
• One-handed adjustment with or without gloves

**Retro-reflective tapes (2)**

• To be better seen at your workstation

**Polyamide cradle : 3 fabric bands with 8 attachment points (3)**

• Comfort of use guaranteed



### HARNESS V



DIAMOND V	Grey-Yellow White Blue Yellow Black Orange Red Green	ABS safety helmet. Innovative "baseball cap" shape to improve vision when looking up. Also tested for front to back wearing, to reduce encumbrance. Polyamide cradle: 3 textile straps with 8 fixing points. Foam sweat band. Innovative button adjustment "colour to colour" for head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C.	CE	EN397 MM LD -30°C +50°C 440 VAC	EN50365	404 g
DIAMOND V UP	Yellow White Blue Orange Red Green	ABS safety helmet with innovative design. Tested in «reverse» position. Polyamide cradle: 3 fabric bands with 8 attachment points. Foam sweat band. Rotor clamping system : head size 53 to 63 cm. 2 possible positions around the head (high/low) for better comfort. Retro-reflective band. Electrical insulation 1000 VAC/1500 VDC. Sold with 4 points chinstrap.		EN397 MM LD -30°C +50°C 440 VAC	CLASS 0	424 g
HARNESS V	Black	Bag of 10 spare harnesses for BASEBALL DIAMOND safety helmet. Textile lining, foam sweat band, adjustment with button.				7 g

### QUARTZ UP IV

Adjustable ventilation (1)

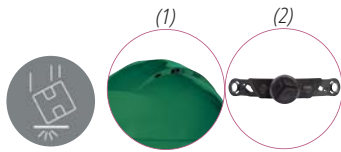
• Optimised ventilation

One-D Rotor ergonomic clamping system

• One-handed adjustment with or without gloves (2)

2 positions of the high and low head circumference

• Suitable for all body shapes



### QUARTZ UP III

One-D Rotor ergonomic clamping system

• One-handed adjustment with or without gloves (1)

2 positions of the high and low head circumference

• Suitable for all body shapes



### QUARTZ I



### SUPER QUARTZ

Button tightening (1)

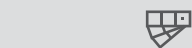
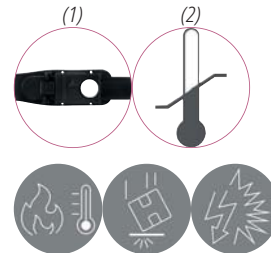
• Easy adjustment with a simple push

Tested on impact and penetration at extreme temperatures +150°C/-30°C (2)

• Especially for the steel industry trades

Shell in ABS-PC

• Resistance to extreme temperatures +150°C/-30°C



QUARTZ UP IV	White Blue Yellow Orange Red Green	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR system: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort.	EN397 MM -30°C +50°C		x 40
QUARTZ UP III		UV-resistant high density polypropylene (PP) safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR system: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C.	EN397 MM -30°C +50°C 440VAC	EN50365 CLASS 0	350 g x 40
QUARTZ I	White Blue Yellow	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyethylene cradle: 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Helmet with adjustable ventilation.	EN397 -10°C +50°C		322 g
SUPER QUARTZ	White	ABS-PC safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative button adjustment "colour to colour" for head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C.	EN397 MM LD -30°C +150°C 440VAC	EN50365 CLASS 0	x 40 410 g

**ZIRCON 1**

Green  
White  
Blue  
Grey  
Yellow  
Orange  
Red

UV-resistant high density polyethylene (HDPE) or polypropylene (PP) safety helmet. Low density (LDPE) polyethylene cradle with 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C. Standard holes for accessories. Anchorage for chin straps with 2 or 4 points.



EN397  
-10°C  
+50°C  
440VAC

EN50365



330 g x 40

**FORESTIER 3**

Orange

Forester's TYPE helmet consisting of: ZIRCON safety helmet: UV-resistant high density polyethylene (HDPE) or polypropylene (PP). Sweat band. Low density (LDPE) polyethylene cradle with 8 fixing points. SUZUKA2 ear defenders. VISOR HOLDER faceshield holder. VISORG mesh visor. Cardboard packaging.



EN397  
-10°C  
+50°C  
440VAC

EN50365



EN352-3  
SNR  
24 dB  
H 27  
M 21  
L 14  
S/M/L

EN1731  
F

762 g x 12

**WINTER CAP**

Black

Lining placed inside the helmet. Accessory for extreme cold protection, easy to remove. User instructions included. Suitable for our range of helmets. This is not PPE.

125 g x 40

**FUEGO**

Adjustable arms (1)



Clear

Clear polycarbonate single lens glasses to use as an accessory for safety helmet. Wraparound design for maximum protection. Folding system in the helmet when it is not used, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.



EN166  
1FT/FT

EN170  
UV  
2C-1.2

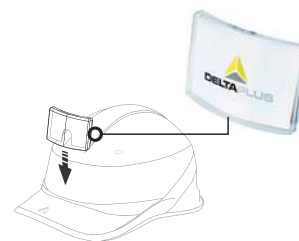
34 g x 100

**NECKALPHA**

Fluorescent orange

High visibility neck protection adaptable on ZIRCON, QUARTZ, BASEBALL DIAMOND, GRANITE and ONYX safety helmets. High-visibility. Protects from the Sun's radiations, and from rain and dust. 31 x 41 cm. Waterproof, antistatic, flammé retardant and UPF 50 material.

x 80

**BADGE-U**

Transparent

Removable badge-holder compatible with the whole DELTA PLUS safety helmets range (ZIRCON, QUARTZ, DIAMOND, GRANITE, ONYX). Maximum dimensions of the badge-holder: 9.2 cm x 6.2 cm.

x 40



**JUGGAMMA**



**BASGAMMA**



Black	Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.	x 20	Black	Bag of 5 thermoformed sweat bands. Suitable for QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets.	x 20
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**DYNAMIC JUGBETA**



**DYNAMIC JUGALPHA**



Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ONYX and DIAMOND VI safety helmets.	x 20	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	x 20
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**MENTALPHA**



**JUGALPHA**



Black	Bag of 10 elastic chin straps with chin protector. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	x 20	Black	Bag of 10 chin straps. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	x 20
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**BASALPHA**



**HESTICKER**

The diagram illustrates the placement of stickers on a helmet. It shows a top-down view of a helmet with six numbered areas: 1 and 1' (inner forehead), 2 (forehead), 3 and 3' (sides), and 4 and 4' (lower forehead). To the right, four circular icons show different helmet styles with stickers placed on them. Below the diagram are icons for a factory, a person working, and a target symbol.

Black	Bag of 10 foam sweat bands. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND, GRANITE and ONYX safety helmets and for BALBIZ, PICO2 and VISOR-H faceshields.	x 20	Metal grey Red	Bag of stickers for DELTA PLUS safety helmets.	x 240
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# A new generation protection cap: The protective shell and the absorbent foam are one!

## KAIZIO

TPE Multi-block over-moulding protection pad with 7 independent pads (1)

• Limits the «helmet» effect by reducing contact with the skull and improves airflow

Triangles form small closed cells that allow the heat to not stay in contact with the skull (2)

• More comfort when carrying

Over-moulding of the TPE foam on the PP shell (3)

• Increased longevity: Zero risk of detachment on wear

• Washable

Perforated area under the mesh fabric forming air entrances and outlets allow the heat not to stay in contact with the skull (4)

• Reduction of perspiration

Retro-reflective tapes (5)

• To be better seen at your workstation

Visor 5 cm (6)

• Guaranteed visual comfort

Matched to the MACH 5 clothing range (7)

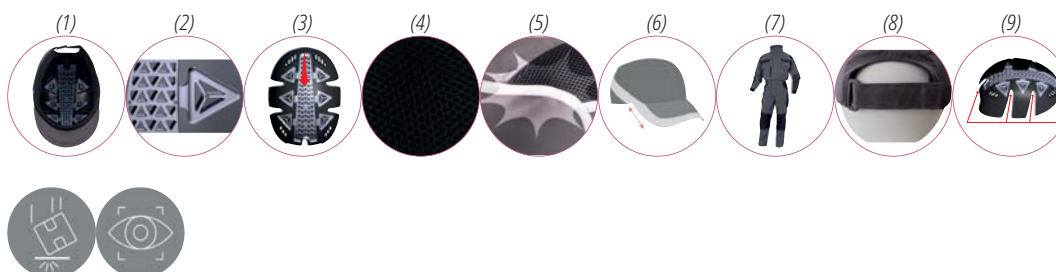
• Total look

Adjustable buckle with Velcro strap closure (8)

• Easy adjustment with a simple push

Universal fit (9)

• One size for all



KAIZIO	Grey-Black	Ergonomic bump cap suitable for all. Polyurethane coated polyester fabric with ventilated mesh. Equipped with an inner shell in PP molded of a TPE cellular band for better shock absorption and longer lifespan.	CE	EN812	185 g	x 20
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## AIR COLTAN

### Rear tightening (1)

• Easy adjustment

### Bi-material (2)

Polyethylene shell with 18 holes (3)

• Ventilation

### Ventilated Mesh fabric (4)

• Reduction of perspiration

Assorted colours available to match the MACH 2 CORPORATE - PANOSTYLE HV clothing range



COLTAAIJAF - 7 cm



COLTAAIBMSH - 5 cm



COLTAAIBM - 7 cm



COLTAAIGRMI - 3 cm



COLTAAIGR - 7 cm



COLTAAINOMI - 3 cm



COLTAAINOSH - 5 cm



COLTAAINOLG - 7 cm



## COLTAN



COLTABMMI - 3 cm



COLTABMSH - 5 cm



COLTABL - 7 cm



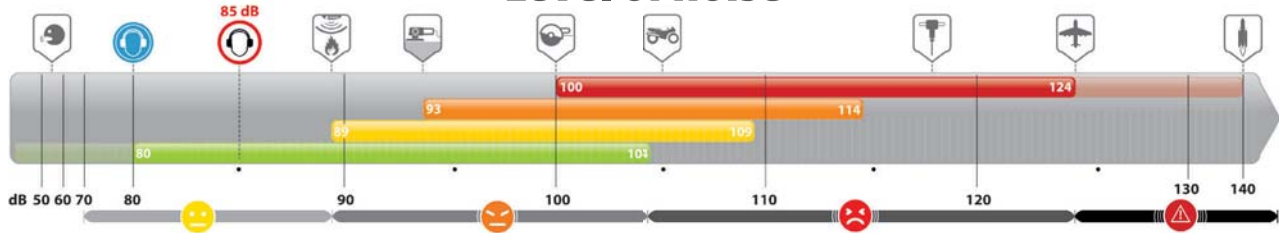
AIR COLTAN	Fluorescent yellow-Grey Black-Red Grey-Yellow Navy blue-Orange	Impact resistant baseball style bump cap. Highly ventilated. Polyurethane coated polyester with mesh fabric on top part for more comfort. Lined with polyethylene and comfortable EVA foam shell to absorb shocks. Adjustable size by buckle 55/62 cm.	CE	EN812	176 g	x 20
COLTAN	Navy blue				150 g	



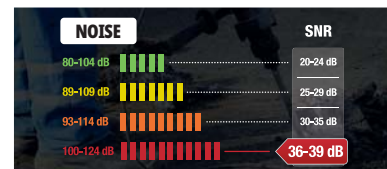
# Ear defenders and earplugs























										
	<b>SPA3</b>	<b>SUZUKA2</b>	<b>INTERLAGOS LIGHT</b>	<b>INTERLAGOS LIGHT HE</b>	<b>PIT RADIO3</b>	<b>INTERLAGOS NB</b>	<b>INTERLAGOS FO</b>	<b>INTERLAGOS</b>	<b>MAGNY COURSZ</b>	<b>MAGNY HELMETZ</b>
<b>100 - 124 dB</b>									<b>33 dB</b>	<b>30 dB</b>
<b>93 - 114 dB</b>							<b>30 dB</b>	<b>30 dB</b>		
<b>89 - 109 dB</b>			<b>26 dB</b>	<b>26 dB</b>	<b>27 dB</b>	<b>28 dB</b>				
<b>80 - 104 dB</b>	<b>23 dB</b>	<b>24 dB</b>								
<b>C E EN352</b>										
<b>HML</b>	H 24 M 20 L 13	H 27 M 21 L 14	H 30 M 24 L 15	H 29 M 24 L 16	H 31 M 24 L 16	H 33 M 26 L 15	H 39 M 29 L 19	H 30 M 28 L 20	H 34 M 32 L 25	H 32 M 28 L 22
<b>Weight</b>	155 g	252 g	200 g	249 g	343 g	247 g	282 g	286 g	338 g	286 g
<b>Description</b>	Light	HV colour	Comfort headband		AM FM Radio	Adjustment behind the head	Reinforced headband Foldable	HV colour reinforced headband		

## Level of noise



## Attenuation values for noise



											
	<b>CONICSOFT</b>	<b>CONICAP</b>	<b>CONICMOVE</b>	<b>CONICFIT</b>	<b>CONICFIRDE</b>	<b>CONICFIR</b>	<b>CONICPLUS</b>	<b>CONICCOPLUS</b>	<b>CONICDE</b>	<b>CONICCO</b>	<b>CONIC</b>
<b>100 - 124 dB</b>									<b>36 dB</b>	<b>36 dB</b>	<b>36 dB</b>
<b>93 - 114 dB</b>				<b>32 dB</b>	<b>34 dB</b>	<b>34 dB</b>	<b>35 dB</b>	<b>35 dB</b>			
<b>89 - 109 dB</b>	<b>26 dB</b>	<b>28 dB</b>	<b>29 dB</b>								
<b>80 - 104 dB</b>											
<b>C E EN352</b>											
<b>HML</b>	H 25 M 23 L 22	H 29 M 24 L 22	H 31 M 25 L 23	H 32 M 29 L 28	H 33 M 32 L 31	H 33 M 32 L 31	H 35 M 33 L 30	H 35 M 33 L 30	H 34 M 34 L 31	H 34 M 34 L 31	H 34 M 34 L 31
<b>Material</b>	Silicone	PU	PU	Silicone	TPR	TPR	PU	PU	PU	PU	PU
<b>Ø</b>	8-10 mm	8-18 mm	12-17 mm	8-12 mm	8-12 mm	8-12 mm	6-15 mm	6-15 mm	7-12 mm	7-12 mm	7-12 mm
<b>Cord</b>	Textile	Foldable headband	Ergonomic headband	Plastic	Textile	Textile		Plastic	Plastic	Plastic	
<b>Uses</b>	Reusable	Reusable	Reusable	Reusable	Reusable Detectable	Reusable	Disposable	Disposable	Disposable Detectable	Disposable	Disposable
<b>Packaging</b>											

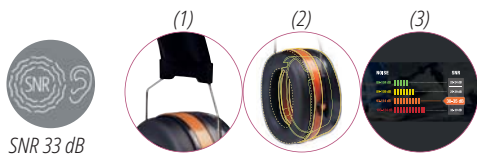
### PIT-RADIO 3

- Broad-cells EVA Headband (1)**
  - For a long-lasting comfort
- Operates with AA battery (2)**
  - Not included
- AUX-IN jack (3)**
  - MP3 connection



### MAGNY COURS 2

- Metallic structure headband (1)**
  - Lightweight and robust, resists bending and twisting
- Air-Room multi-shell attenuation technology (2)**
  - High performance level
- Colour according to the Delta Plus SNR scale (3)**
  - For an easier selection of the most suitable protection!
- Padded cushions in synthetic foam and PU coating**
  - Utmost comfort



SNR 33 dB

### MAGNY HELMET 2

- Universal Fit (1)**
  - Easy assembly on all our safety helmets
- Metallic fork (2)**
  - Lightweight and robust, resists bending and twisting
- Padded cushions in synthetic foam**
  - Utmost comfort
- Air-Room multi-shell attenuation technology (3)**
  - High performance level
- Colour according to the Delta Plus SNR scale (4)**
  - For an easier selection of the most suitable protection!



SNR 30 dB



PIT-RADIO 3	Black-Red	Electronic ear defenders, equipped with a radio system. Allows you to listen to the radio in the FM band (87-108 MHz), while protecting hearing, in an efficient and enjoyable way. Requires 2 AA batteries not included.		EN352-1 <b>SNR 27 dB</b> H 31 M 24 L 16 S/M/L	EN352-6 EN352-8	ANSI S3.19 <b>NRR 22 dB</b>	343 g	
MAGNY COURS 2		Ear defenders with ABS cups. Pads filled with synthetic foam. Metallic headgear: external in textile/internal in EVA/PVC material, adjustable in height, very comfortable. High performance level.	CE	EN352-1 <b>SNR 33 dB</b> H 34 M 32 L 25 S/M/L		ANSI S3.19 <b>NRR 26 dB</b>	338 g	x 20
MAGNY HELMET 2	Black	Ear defenders for safety helmets. Adjustable in height. Metallic arms and ABS cups padded with synthetic foam. Can be used on their own or with VISOR HOLDER faceshield holder. Suitable for ZIRCON, QUARTZ, GRANITE and BASEBALL DIAMOND safety helmets.		EN352-3 <b>SNR 30 dB</b> H 32 M 28 L 22 S/M/L		ANSI S3.19 <b>NRR 25 dB</b>	286 g	

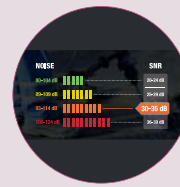




**Double headband**  
 ▶ Greater flexibility and comfort  
 INTERLAGOS  
 INTERLAGOS FOLDABLE



**Ear defenders holder tool included on the belt**  
 ▶ Hearing protection always at your fingertips  
 INTERLAGOS  
 INTERLAGOS FOLDABLE



**Colour according to the Delta Plus SNR scale**  
 ▶ For an easier selection of the most suitable protection!  
 INTERLAGOS  
 INTERLAGOS FOLDABLE

**INTERLAGOS**

**HV colour**  
 ▶ To be better seen at your workstation

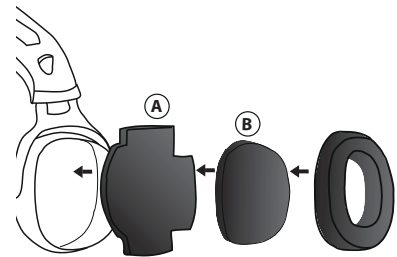


**INTERLAGOS FOLDABLE**

**Foldable headband (1)**  
 ▶ Less space, easier storage



**INTERHYKIT**



INTERLAGOS	Grey Fluorescent yellow Fluorescent orange	Ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with soft reinforcement for a better comfort.	CE	EN352-1 SNR 30 dB H 30 M 28 L 20 S/M/L	ANSI ANSI S3.19 NRR 28 dB	286 g
INTERLAGOS FOLDABLE	Grey	Foldable ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with foam reinforcement for a better comfort.		EN352-1 SNR 30 dB H 33 M 29 L 19 S/M/L		282 g
INTERHYKIT		5 Hygiene Kits (cushions + foam inserts) for INTERLAGOS, INTERLAGOS FO, INTERLAGOS NB, INTERLAGOS LIGHT, INTERLAGOS LIGHT HE earmuffs.				175 g

### INTERLAGOS NB

- Colour according to the Delta Plus SNR scale<sup>(1)</sup>
- For an easier selection of the most suitable protection!
- Textile support strap
- Offers stability and easy to wear with all safety helmets and caps

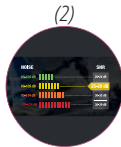
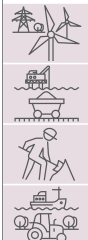


### INTERLAGOS LIGHT



### INTERLAGOS LIGHT HE

- Pads filled with synthetic foam
- Utmost comfort
- Universal fixing<sup>(1)</sup>
- Easy assembly on all our safety helmets
- Colour according to the Delta Plus SNR scale<sup>(2)</sup>
- For an easier selection of the most suitable protection!



### SUZUKA 2



### SPA 3



INTERLAGOS NB		CE	EN352-1 SNR 28 dB H 33 M 26 L 15 S/M/L	ANSI S3.19 NRR 21 dB	247 g	x 20				
INTERLAGOS LIGHT	Grey						EN352-1 SNR 26 dB H 30 M 24 L 15 S/M/L	ANSI S3.19 NRR 21 dB	200 g	x 50
INTERLAGOS LIGHT HE							EN352-3 SNR 26 dB H 29 M 24 L 16 S/M/L	ANSI S3.19 NRR 24 dB	249 g	x 20
SUZUKA 2	Fluorescent yellow Black						EN352-3 SNR 24 dB H 27 M 21 L 14 S/M/L	ANSI S3.19 NRR 21 dB	252 g	x 20
SPA 3	Blue-Black						EN352-1 SNR 23 dB H 24 M 20 L 13 S/M/L		155 g	x 50



**Silicone free product**

• Ideal for the automotive industry

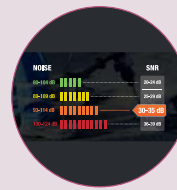
CONICFIR050 - CONICFIR010  
CONICFIRDE010



**Profiled design with 3 fins: more material in contact with the ear canal**

• Optimised sealing and noise attenuation

CONICFIR050 - CONICFIR010  
CONICFIRDE010  
CONICFIT100 - CONICFIT010



**Colour according to the Delta Plus SNR scale**

• For an easy selection of the most suitable protection!

CONICFIR050 - CONICFIR010  
CONICFIT100 - CONICFIT010

**CONICFIR050 - CONICFIR010**

Easy grip allowing a directed insertion according to the angle of the auditory canal

TPE - Resistant to ear-wax and body oils

• Increased longevity

Braided nylon cord

• Keep the plugs on hand

Universal size

• Suitable for all auditory canals regardless of their shape



**CONICFIRDE010**

Magnetically detectable product

• Suitable for the food industry

Easy grip allowing a directed insertion according to the angle of the auditory canal

TPE - Resistant to ear-wax and body oils

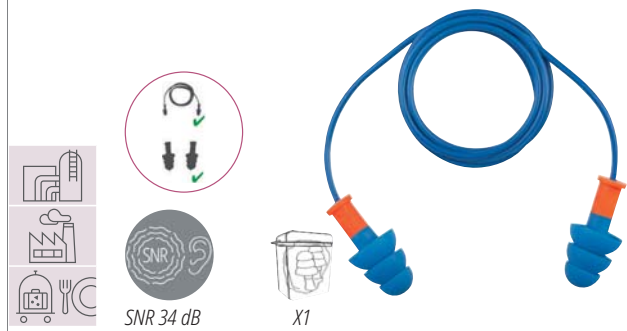
• Increased longevity

PVC cord and detectable brass wire

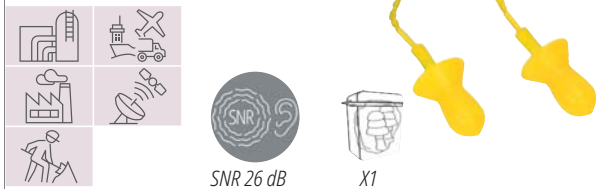
• Keep the plugs on hand

Universal size

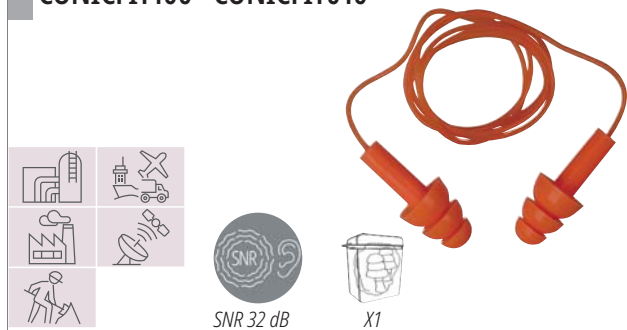
• Suitable for all auditory canals regardless of their shape



**CONICSOF010**



**CONICFIT100 - CONICFIT010**



CONICFIR050	Grey	Box of 50 pairs of reusable TPR earplugs with fabric cord. Can be used with or without cord.	<b>CE</b> EN352-2 SNR 34 dB H 33 M 32 L 31 Ø 8-12 mm	ANSIS3.19 NRR 26 dB	
CONICFIR010		Bag of 10 pairs of reusable thermoplastic (TPR) earplugs with textile cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage box).			x 20
CONICFIRDE010	Blue	Bag of 10 pairs of detectable and reusable TPR earplugs with plastic cord. Iron and brass inserts, suitable for food industry. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).		<b>ANSI</b> ANSIS3.19 NRR 22 dB	x 100
CONICSOF010	Yellow	Bag of 10 pairs of reusable silicone earplugs with textile cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).			
CONICFIT100	Orange	Dispenser box of 100 pairs of reusable silicone earplugs with PVC cord. Can be used with or without cord. Individual plastic bag of 2 earplugs.			EN352-2 SNR 32 dB H 32 M 29 L 28 Ø 8-12 mm
CONICFIT010		Bag of 10 pairs of reusable silicone earplugs with PVC cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).	x 100		

### CONICMOVE01

Very stable ergonomic headband

• Very good performance in use

Very comfortable round plugs

• Extended use



SNR 29 dB



### CONICMOVE01BR



Blue-Yellow	PU earplugs with headband in polypropylene which can be worn under the chin. Ideal for intermittent or occasional wear.	CE	EN352-2 SNR 29 dB H 31 M 25 L 23 Ø 12-17 mm	x 100	Yellow	Bag of 10 pairs of spare earplugs for CONICMOVE01.	x 200
		ANSI	ANSI S3.19 NRR 23 dB				

### CONICAP01



SNR 28 dB



### CONICAP01BR



Blue-Yellow	PU earplugs with headband in polypropylene which can be worn under the chin. Ideal for intermittent or occasional wear. Individual pack.	CE	EN352-2 SNR 28 dB H 29 M 24 L 22 Ø 8-18 mm	x 200	Yellow	Bag of 10 pairs of spare earplugs for CONICAP01.	x 200
		ANSI	ANSI S3.19 NRR 21 dB				

### CONICPLUS200

Ergonomic shape (1)

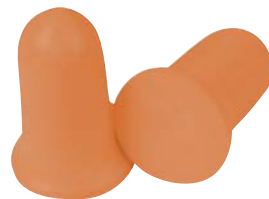
• Optimal placement in the ear canal

Colour according to the Delta Plus SNR scale (2)

• For an easy selection of the most suitable protection!



SNR 35 dB



### CONICCOPLUS200

Ergonomic shape (1)

• Optimal placement in the ear canal

Colour according to the Delta Plus SNR scale (2)

• For an easy selection of the most suitable protection!



SNR 35 dB

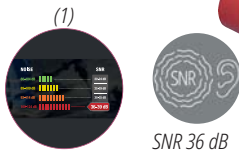


Fluorescent orange	Dispenser box of 200 pairs High Visibility disposable PU earplugs. Ergonomic design for more comfort with DELTA EASYFIT integrated system for easier insertion in the ear canal. Individual plastic bag of 2 earplugs.	CE	EN352-2 SNR 35 dB H 35 M 33 L 30 Ø 6-15 mm	x 5	Fluorescent orange	Dispenser box of 200 pairs HV disposable PU earplugs with plastic cord. Ergonomic design for more comfort. Individual plastic bag of 2 earplugs.	x 5
		ANSI	ANSI S3.19 NRR 32 dB				



**CONIC010**

Colour according to the Delta Plus SNR scale (1)  
 ▶ For an easier selection of the most suitable protection!



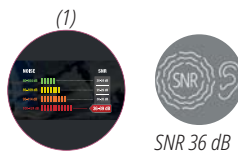
Red	Bag of 10 pairs of disposable polyurethane earplugs. Individual plastic bag of 2 earplugs.	CE	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm	x 10
		ANSI	ANSI S3.19 NRR 33 dB	

**CONICDE010**

Blue	Bag of 10 pairs of detectable polyurethane earplugs with detectable plastic cord. Brass and iron inserts, suitable for food industry. (9 pairs in bag + 1 pair in storage plastic box).	CE	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm	x 100
		ANSI	ANSI S3.19 NRR 33 dB	

**CONIC200**

Colour according to the Delta Plus SNR scale (1)  
 ▶ For an easy selection of the most suitable protection!



Red	Dispenser box of 200 pairs disposable polyurethane earplugs. Individual plastic bag of 2 earplugs.	CE	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm	x 5
		ANSI	ANSI S3.19 NRR 33 dB	

**CONICCO200**

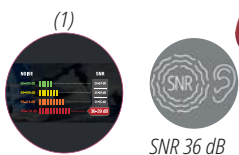
Colour according to the Delta Plus SNR scale (1)  
 ▶ For an easy selection of the most suitable protection!



Red	Dispenser box of 200 pairs disposable polyurethane earplugs with plastic cord. Individual plastic bag of 2 earplugs.	CE	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm	x 5
		ANSI	ANSI S3.19 NRR 33 dB	

**CONIC500**

Colour according to the Delta Plus SNR scale (1)  
 ▶ For an easy selection of the most suitable protection!



Red	Box of 500 pairs disposable polyurethane earplugs. Refill unit for CONICDISPLAY.	CE	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm	x 5
		ANSI	ANSI S3.19 NRR 33 dB	

**CONIC DISPLAY**

Colour according to the Delta Plus SNR scale (1)  
 ▶ For an easy selection of the most suitable protection!

**CONIC500 refill**

**Attachment system included**

▶ Attaches to the wall or sits



<b>DEAR BOX</b>				
	Display box for DELTA PLUS earplugs range.			

Grey	Dispenser for earplugs including a refill of 500 pairs of CONIC500 earplugs.	CE	EN352-2 SNR 36 dB H 34 M 34 L 31 Ø 7-12 mm	x 4
		ANSI	ANSI S3.19 NRR 33 dB	

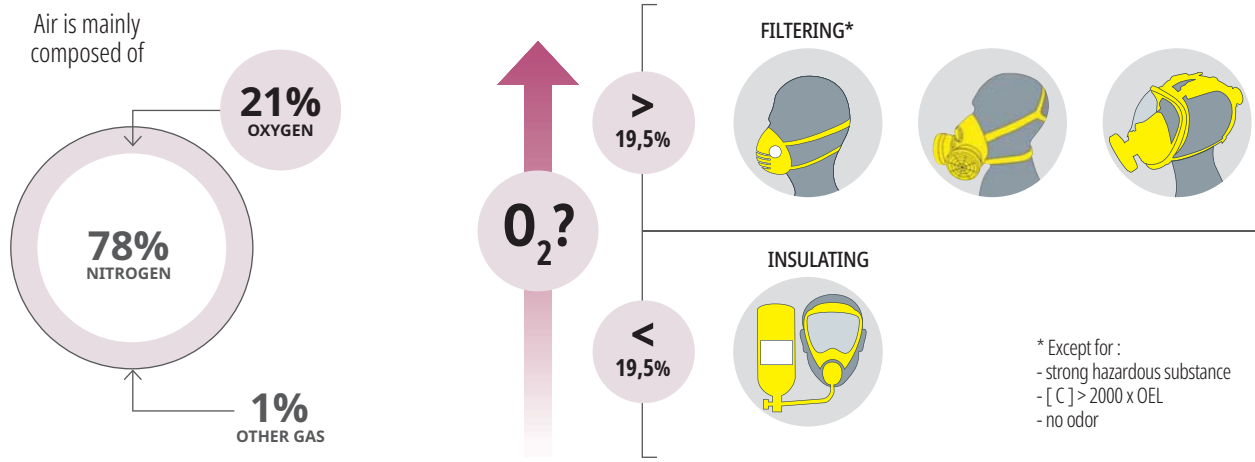




<http://respiratory.deltaplus.eu>



### Step 1: O<sub>2</sub> or not O<sub>2</sub>?



### Step 2: Identify the type of risk

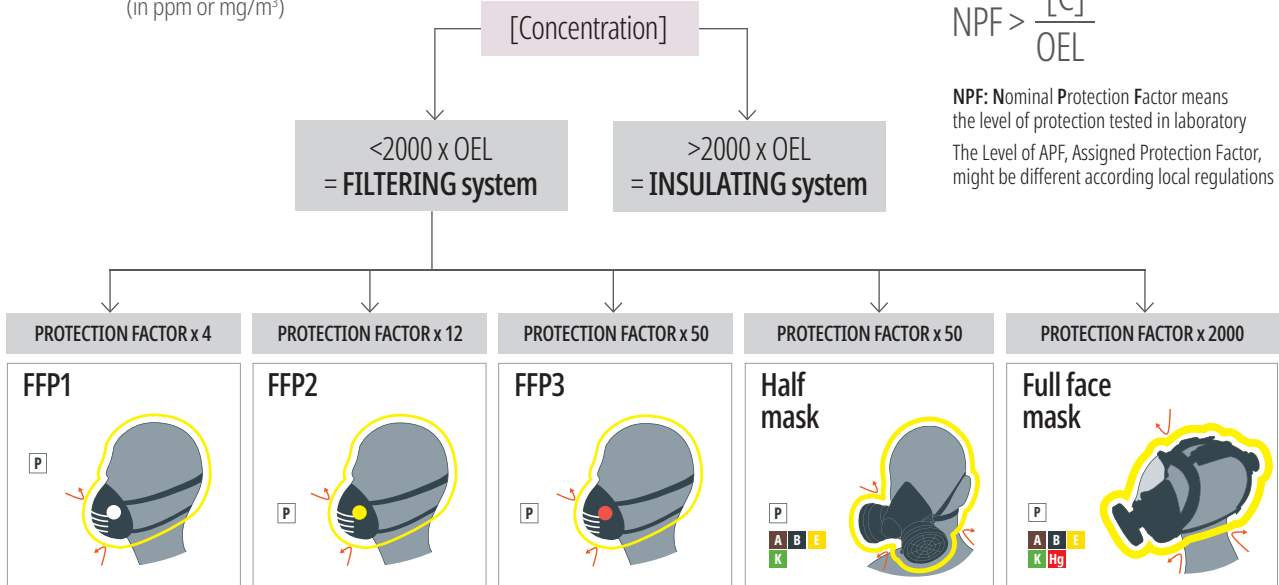
<p>Particles Aerosols</p> <p><b>P</b></p>	<p>Mist</p>	<p>Fume</p>	<p>Dust</p>	<p><b>OEL</b> OCCUPATIONAL EXPOSURE LIMIT</p> <table border="1"> <tr> <td> <p><b>TWA</b></p> <p>TIME WEIGHTED AVERAGE</p> <p>Average exposure limit over an 8 hour time period</p> </td> <td> <p><b>1</b></p> <p>WORKING DAY</p> </td> <td> <p><b>STEL</b></p> <p>SHORT TERM EXPOSURE LIMIT</p> <p>Should not be longer than 15 minutes</p> <p>Should not occur more than 4 times per day with at least 60 minutes between exposures</p> </td> </tr> </table>	<p><b>TWA</b></p> <p>TIME WEIGHTED AVERAGE</p> <p>Average exposure limit over an 8 hour time period</p>	<p><b>1</b></p> <p>WORKING DAY</p>	<p><b>STEL</b></p> <p>SHORT TERM EXPOSURE LIMIT</p> <p>Should not be longer than 15 minutes</p> <p>Should not occur more than 4 times per day with at least 60 minutes between exposures</p>
<p><b>TWA</b></p> <p>TIME WEIGHTED AVERAGE</p> <p>Average exposure limit over an 8 hour time period</p>	<p><b>1</b></p> <p>WORKING DAY</p>	<p><b>STEL</b></p> <p>SHORT TERM EXPOSURE LIMIT</p> <p>Should not be longer than 15 minutes</p> <p>Should not occur more than 4 times per day with at least 60 minutes between exposures</p>					
<p>Gas vapours</p> <p><b>A B E K Hg</b></p>	<p>Vapours Gases</p>						

### Step 3: Concentration

(in ppm or mg/m<sup>3</sup>)

$$NPF > \frac{[C]}{OEL}$$

**NPF:** Nominal Protection Factor means the level of protection tested in laboratory  
The Level of APF, Assigned Protection Factor, might be different according local regulations





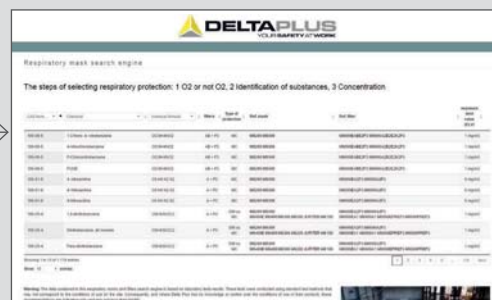
# Reusable respiratory protection

				Gas Vapours		Particles Aerosols	
				A B E K Hg	EN14387	P	EN143/A1
<p><b>EN136</b></p>	<p><b>M9200 - ROTOR GALAXY</b></p> <ul style="list-style-type: none"> <li>▶ Rotor® registered mark</li> <li>▶ Adjustable size</li> <li>▶ Wide vision (210°)</li> </ul>	<p><b>M9300 - STRAP GALAXY</b></p> <ul style="list-style-type: none"> <li>▶ Adjustable size</li> <li>▶ Wide vision (210°)</li> <li>▶ To be used with helmet</li> </ul>	<p>On request:</p> <p>M9000E AX M9000E AXP3 M9000E ABE2 M9000E ABE2P3 M9000E ABEKHgP3 M9000E K2 M9000E K2P3 M9000E A2B2 M9000E A2B2P3 M9000E B2P3 M9000E E2 M9000E E2P3</p>	<p>M9000E A2</p> <p>M9000E A2B2E2K2</p> <p>M9000E A2P3</p> <p>M9000E A2B2E2K2P3</p> <p>M9000E E2P3</p> <p>x4</p>		<p>M9000 P3</p>	
	<p><b>EN140</b></p>	<p><b>M6400 - JUPITER</b></p> <ul style="list-style-type: none"> <li>▶ Comfort half mask PP/TPE</li> <li>▶ Elastic straps and harness</li> <li>▶ 2 filter cartridges</li> </ul>	<p><b>M6200 - JUPITER</b></p> <ul style="list-style-type: none"> <li>▶ Comfort half mask in tri-material</li> <li>▶ Elastic straps</li> <li>▶ 2 filter cartridges</li> </ul>	<p>M6000 A1</p> <p>M6000 A2</p> <p>M6000 A1B1E1K1</p>	<p>M6000 A2</p> <p>M6000E A1B1E1K1</p>	<p>M6000E PREP2</p> <p>M6000 P2</p> <p>M6000E PREP3</p> <p>M6000 P3</p> <p>M6000 P2CLIP</p>	
		<p><b>M9300 - JUPITER</b></p> <ul style="list-style-type: none"> <li>▶ Comfort half mask PP/TPE</li> <li>▶ Elastic straps and harness</li> <li>▶ 1 filter cartridge</li> <li>▶ Available out of Europe</li> </ul>	<p><b>M6100 - JUPITER</b></p> <ul style="list-style-type: none"> <li>▶ Comfort half mask in tri-material</li> <li>▶ Elastic straps</li> <li>▶ 1 filter cartridge</li> </ul>	<p>M6000 A1</p>	<p>M6000 A1</p>	<p>M6000 PREP3</p> <p>M6000 P3</p> <p>M6000 P2CLIP</p>	

Advice: Change the filter after each use, or quicker if the atmosphere is polluted, humid and the air flow (or breathing) is high.

Consult our help with choice tool to guide you in your search, from our home page

[www.deltaplus.eu](http://www.deltaplus.eu) > PRODUCTS menu > TECHNICAL SUPPORT section > Respiratory masks



Or directly to the address:

<http://respiratory.deltaplus.eu>



### M9200 - ROTOR GALAXY

Extra large field of vision (210°) (1)

▶ Guaranteed maximum visual comfort

Adjustable size S/ M/ L (2)

▶ Suitable for most types of faces

Rotor® system (patented)

Registered design, registered ROTOR® brand, patented fastening system (3)

▶ Simple and quick adjustment with or without gloves

**Class 3 : Resistance to radiant heat and flame**

▶ Use in extreme conditions



### M9300 - STRAP GALAXY

Extra large field of vision (210°) (1)

▶ Guaranteed maximum visual comfort

Tightening with silicone straps (2)

▶ Precise adjustment

Compatible with other PPE

▶ Can be used with a safety helmet

**Class 3 : Resistance to radiant heat and flame**

▶ Use in extreme conditions



M9200 - ROTOR GALAXY	Black-Orange	Silicone full face mask with innovative ROTOR® system adjustment (patented), one-hand use even when wearing gloves. Wide polycarbonate screen (210°). Inside silicone half-mask to reduce mist and increased comfort (3 inhalation valves, an exhalation valve, phonic system). Adjustable sizes: S, M, L. Compatible with EN148-1 type cartridges as M9000 range, sold separately. Storage bag included.		Adjustable	CE	EN136 CLASS 3	x 6
M9300 - STRAP GALAXY		Silicone full face mask with strap adjustment. Wide polycarbonate screen (210°). Inside silicone half-mask to reduce mist and increased comfort (3 inhalation valves, an exhalation valve, phonic system). Adjustable size. Shoulder strap to hold the mask when not in use. Compatible with EN148-1 type cartridges M9000 range, sold separately. Storage bag included.				EN148-1	

**M6200 JUPITER**

M6000 Bayonet anchor (1)

- Compatible with the M6000 cartridge range (gas and particles)



**M6100 JUPITER**

M6000 Bayonet anchor (1)

- Compatible with the M6000 cartridge range (gas and particles)



**M6400 JUPITER**

Thermoplastic over moulding (TPE) :

Secured joints (1)

- Low breathing resistance
- Enhanced security

M6000 Bayonet anchor (2)

- Compatible with the M6000 cartridge range (gas and particles)



M6200 JUPITER		Comfort half mask in tri-material: Half mask body in Thermo-plastic Elastomer (TPE) - Support for cartridge anchorage in polyethylene HD (HDPE) - Valve protective housing in polypropylene (PP). Elastic straps. To be used with 2 filter cartridges, M6000 series, sold separately. Cardboard packaging.	Adjustable			
M6100 JUPITER	Black-Grey	Comfort half mask in tri-material: Half mask body in Thermo-plastic Elastomer (TPE) - Support for cartridge anchorage in polyethylene HD (HDPE) - Valve protective housing in polypropylene (PP). Elastic straps. To be used with 1 filter cartridges, M6000 P3, M6000 PREP3 or M6000 A1, sold separately. Cardboard packaging.	Adjustable	CE	EN140	x 15
M6400 JUPITER		Comfort half mask bi-filter: Half mask body in polypropylene (PP) - Thermoplastic (TPE) overmould. Elastic straps. To be used with 2 filter cartridges, M6000 series, sold separately. Shell packaging.	M/L			























































M6400 JUPITER MARS KIT A2 P2	Black-Grey	Comfort half mask with bi filters : Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges A2 and 2 prefilters P2. Elastic straps. Plastic shell packaging.	M/L	CE	EN140 EN14387 A2 EN143 P2R x 10
M6400 JUPITER SPRAY KIT A2 P3	Black-Grey	Comfort half mask with bi filters : Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges A2 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	M/L	CE	EN140 EN14387 A2 EN143 P3R x 10
M6400 JUPITER CHEM KIT ABEK P3	Black-Grey	Comfort half mask with bi filters : Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges ABEK1 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	M/L	CE	EN140 EN14387 A1B1E1K EN143 P3R x 10

<b>M6000 A1</b>		<b>M6000E A2</b>	
Grey	Pack of 2 A1 filtering cartridges for M6000 JUPITER series half masks.	CE	EN14387 A1 x 30
Grey	Pack of 2 A2 filter cartridges for M6200 JUPITER half-mask and M6400 JUPITER half mask.	CE	EN14387 A2 x 30

<b>M6000E ABEK1</b>		<b>M6000E PREP2</b>	
Grey	Pack of 2 A1B1E1K1 filter cartridges for M6200 JUPITER and M6400 JUPITER half masks.	CE	EN14387 A1B1E1K1 x 30
Grey	Set of 6 P2 pre-filters and 2 adapters for M6000 JUPITER half-mask series. To use with M6000E filters.	CE	EN143 P2R x 30

<b>M6000E PREP3</b>		<b>M6000 P2 CLIP</b>	
Grey	Set of 2 P3 pre-filters and 2 adapters for M6000 JUPITER half-mask series. To use with M6000E filters.	CE	EN143 P3R x 30
Grey	Set of 2 P2 filter cartridges for M6000 JUPITER series half masks + 20 spare disposable filters.	CE	EN143 P2NR x 30

<b>M6000 P3</b>		<b>M6000 P2</b>	
Grey	Pack of 2 P3 filter cartridges for M6000 JUPITER series half mask.	CE	EN143 P3R x 30
Grey	Pack of 2 P2 filter cartridges for M6000 JUPITER series half masks.	CE	EN143 P2R x 30

<b>M9000E A2</b>				<b>M9000E A2P3</b>			
				EN148-1	EN14387 <b>A2</b>	x 10	
Black	Box of 4 A2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>A2P3R</b>	x 10	
Black	Kit of 4 A2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000E A2B2E2K2</b>				<b>M9000E A2B2E2K2P3</b>			
				EN148-1	EN14387 <b>A2B2E2K2</b>	x 10	
Black	Box of 4 A2B2E2K2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>A2B2E2K2P3R</b>	x 10	
Black	Box of 4 A2B2E2K2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000 P3</b>				<b>M9000E A2B2</b>			
				EN148-1	EN143 <b>P3R</b>	x 10	
Black	Kit of 4 P3R filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>A2B2</b>	x 10	
Black	Box of 4 A2B2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000E A2B2P3</b>				<b>M9000E A2B2E2P3</b>			
				EN148-1	EN14387 <b>A2B2P3</b>	x 10	
Black	Box of 4 A2B2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>A2B2E2P3R</b>	x 10	
Black	Box of 4 A2B2E2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000E A2B2E2K2HGP3</b>				<b>M9000E AX</b>			
				EN148-1	EN14387 <b>A2B2E2K2HgP3R</b>	x 10	
Black	Box of 4 A2B2E2K2HgP3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>AX</b>	x 10	
Black	Box of 4 AX filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000E AXP3</b>				<b>M9000E B2P3</b>			
				EN148-1	EN14387 <b>AXP3R</b>	x 10	
Black	Box of 4 AXP3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>B2P3</b>	x 10	
Black	Box of 4 B2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000E E2</b>				<b>M9000E E2P3</b>			
				EN148-1	EN14387 <b>E2</b>	x 10	
Black	Box of 4 E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>E2P3</b>	x 10	
Black	Box of 4 E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
<b>M9000E K2</b>				<b>M9000E K2P3</b>			
				EN148-1		x 10	
Black	Box of 4 K2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1	EN14387 <b>K2P3R</b>	x 10	
Black	Box of 4 K2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						
				EN148-1		x 10	
Black	Box of 4 A2B2E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.						



# Disposable respiratory protection



**FFP1**    C € EN149    8H

Nominal protection factor\* x4

- ▶ Cement dust, flour, calcium carbonate, (chalk), graphite, cotton, concrete...\*\*

**FFP2**    C € EN149    8H

Nominal protection factor\* x12

- ▶ Untreated softwood, grinding, cutting, welding, milling, coal, glass fibre, mineral fibre, graphite, powdered pesticide...\*\*

**FFP3**    C € EN149    8H

Nominal protection factor\* x50

- ▶ Asbestos (without manipulation), powdered pesticide, biological agents, pharmaceutical powder, treated wood, hard wood (exotic), chromium, lime, lead...\*\*



<b>SPIDER MASK</b> M1200SM / M1200SM15	<b>SPIDER MASK</b> M1200SMW	<b>CONFORT PLUS</b> M1200PLUS / M2FP2VPLW
X5 X30	X5 X30	X5 X2
	Smell filtering	Smell filtering Flame retardant

<b>SPIDER MASK</b> M1300SM / M1300SM15	<b>CONFORT PLUS</b> M1300V / M2FP3V
X5 X30	X5 X2

<b>POCKET</b> M1100VB	<b>AER</b> M1104
X10	X20

<b>POCKET</b> M1200VB	<b>PAPIA</b> M1200VP / M1200VPW	<b>AER</b> M1204V / M1204
X10	X10	X10
	Smell filtering	
		X20

<b>POCKET</b> M1300VB	<b>PAPIA</b> M1300VP	<b>AER</b> M1304V / M1304WW
X10	X10	X10
	Smell filtering	

**CONFORT**  
M1100V

X10

<b>CONFORT</b> M1200V / M2FP2V	<b>CONFORT</b> M1200VV / M2FP2WW
X10 X2	X10 X2
	Smell filtering

**CONFORT**  
M1300V2

X10

**CONFORT**  
M1100 / M3FP1

X20 X3

**CONFORT**  
M1200

X20



<b>SMOG</b> M1102BC / M1102VB		
	X30	X15

<b>SMOG</b> M1202BC / M1202VB		
	X30	X15

<b>SMOG</b> M1302BC / M1302VB		
	X30	X15

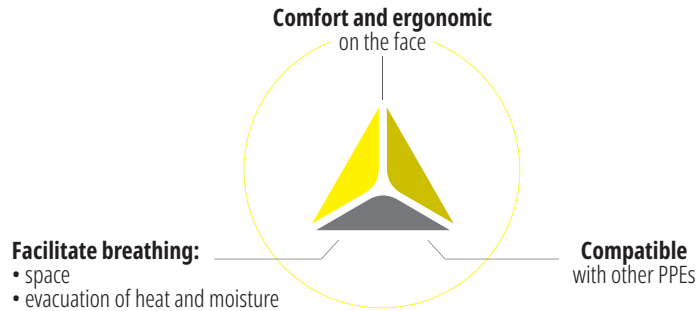
**D** Optional test of EN149: 2001 standard for clogging of dolomite dust.  
\*The Assigned Protection Factor, might be different according local regulations.  
\*\*This list is indicative but not contractual and can not engage the responsibility of DELTA PLUS.



# Choose the right mask

A complete and innovative range, with different design and concepts for masks, to help to choose YOUR respiratory solution

3 axis for an optimal respiratory protection:



## Ergonomic and comfort

### AER range



Design for an excellent field of view.  
Compatible with safety glasses.  
Nose clip for optimal adjustment.



**Without staples**



#### 4 Fold :

► Ergonomic design  
adaptable to any type  
of morphology



#### High performance exhalation valve

► Minimises moisture  
inside the mask  
► Facilitates Breathing



#### Individually wrapped

► Easily transportable  
and hygienic

### CONFORT PLUS range

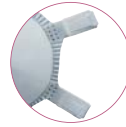


Moulded design for optimised  
respiratory comfort.  
Precise adjustment by straps to  
adapt to all morphology  
Soft foam edge for an excellent  
face comfort.



#### Ultra-soft full facial seal

► Increased comfort and optimal sealing



#### Wide adjustable straps

► Precise tightening and adjustment



#### High performance exhalation valve

► Minimises moisture inside the mask  
► Facilitates Breathing

Classic and comfortable, the optimised solution of respiratory protection

### CONFORT range



#### High performance exhalation valve

► Minimises moisture  
inside the mask  
► Facilitates Breathing



#### Nose clip and comfort foam

► Optimal adjustment





Economical and ecological by its concept of replaceable filters

**SPIDERMASK range**

Increased comfort and optimal sealing

Precise tightening and adjustment

**SPIDER MASK**  
M12005MS  
M12005MWS  
M13005M

**SPIDER REFILL**  
M12005MPR30  
M12005MWP30  
M13005MPR30

x5 + x30

High performance exhalation valve

- Minimises moisture inside the mask
- Facilitates Breathing

Less waste: Re-use of the valve, the elastics, and TPE shell.

More economical: Replacing of the filter media without discarding the other components of the mask.

Comfort superior to a classic disposable mask: Adjustment of the elastic via the rear clip.

Protection on the go: foldable, compact, easy to transport and stock  
Choose the design being the most convenient to your face

**POCKET Range**      **SMOG Range**      **PAPIA Range**

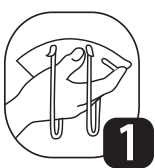
Individually Wrapped

- Transportable and hygienic

High performance exhalation valve

- Minimises moisture inside the mask
- Facilitates Breathing

## Properly adjust your mask



**1.** Hold the preformed mask in the palm of your hand, with the nose bar towards the top and the straps hanging down.



**2.** Place the mask under your chin, covering your mouth and nose.



**3.** Take the upper elastic strap and pass it around the back of your head, take the lower elastic strap and pass it round the back of your neck (for the COMFORT PLUS range, adjust the adjustable straps).



**4.** Mould the nose bar around the nose to seal it off completely.



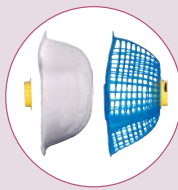
**5.** Check the seal by breathing out hard and ensure that no air leaks around the sides of the mask. If necessary, readjust and check again.

**DISPOSABLE RESPIRATORY - SPIDER MASK**

Clip closure at the back with textile elastic

- Easy to set-up and remove

SPIDERMASK P3 X5  
SPIDERMASK P3 1+5  
SPIDERMASK P2 X5  
SPIDERMASK P2 1+5  
SPIDERMASK P2W X5



High performance exhalation valve

- Better evacuation of moisture and heat for extended comfort of use

SPIDERMASK P3 X5  
SPIDERMASK P3 1+5  
SPIDERMASK P2 X5  
SPIDERMASK P2 1+5  
SPIDERMASK P2W X5



Screw system to change the filtering facepiece

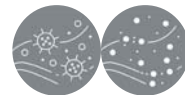
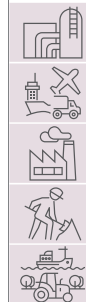
- Economical and ecological solution with the replacement of filter media only

SPIDERMASK P3 X5  
SPIDERMASK P3 1+5  
SPIDERMASK P2 X5  
SPIDERMASK P2 1+5  
SPIDERMASK P2W X5

**SPIDERMASK P3 X5 - SPIDERMASK P3 1+5**

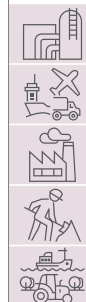
Very soft and comfortable TPE shell

- Even after crushing the mask systematically returns to its original shape for a perfect fit on the face

**SPIDER REFILL FFP3****SPIDERMASK P2 X5 - SPIDERMASK P2 1+5**

Very soft and comfortable TPE shell

- Even after crushing the mask systematically returns to its original shape for a perfect fit on the face

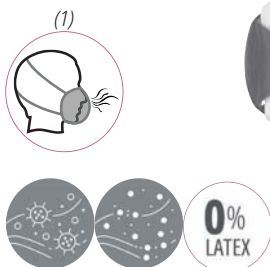
**SPIDER REFILL FFP2****SPIDERMASK P2W X5**

Activated charcoal (1)

- Protection from nuisance odours

Very soft and comfortable TPE shell

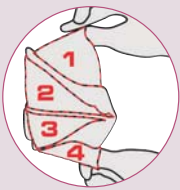
- Even after crushing the mask systematically returns to its original shape for a perfect fit on the face

**SPIDER REFILL FFP2W**

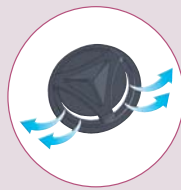


SPIDERMASK P3 1+5	Blue	Pack of 1 reusable moulded mask shell in TPE + 5 FFP3 spare disposable filters. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP3). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.	CE	EN149	NIOSH N95	x 48
SPIDERMASK P3 X5		Box of 5 reusable FFP3 dust mask. 5 Reusable moulded mask shells in TPE. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP3). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.				x 10
SPIDER REFILL FFP3	White	Box of 30 pieces of non woven synthetic fibre disposable masks FFP3 protection. Spare parts for SPIDER MASK.				
SPIDERMASK P2 1+5	Blue	Pack of 1 reusable moulded mask shell in TPE + 5 FFP2 spare disposable filters. 1 Reusable moulded mask shell in TPE. Replaceable non woven synthetic fibre disposable filter. High performance valve which unscrews to allow the user to change the mask filter (SPIDERREFILL FFP2). Adjustable straps. Back fixing with clip.	CE	EN149	NIOSH N95	x 48
SPIDERMASK P2 X5		Box of 5 reusable FFP2 dust mask. 5 Reusable moulded mask shells in TPE. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP2). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.				x 10
SPIDER REFILL FFP2	White	Box of 30 pieces of non woven synthetic fibre disposable masks FFP2 protection. Spare parts for SPIDER MASK.				
SPIDERMASK P2W X5	Grey	Box of 5 reusable FFP2W dust mask. 5 Reusable moulded mask shells in TPE. Active carbon non woven synthetic fibre disposable masks for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Replaceable. High performance valve which unscrews to allow the user to change the mask filter (SPIDERREFILL FFP2W). Adjustable straps. Back fastening with clip.	CE	EN149	NIOSH N95	x 10
SPIDER REFILL FFP2W		Box of 30 pieces of active charcoal non woven synthetic fibre disposable masks FFP2W for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Spare parts for SPIDER MASK.				





M1304V  
M1304VV  
M1204V  
M1204  
M1104



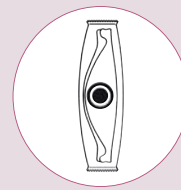
#### High performance exhalation valve

- Minimises moisture inside the mask

M1304V - M1304VV  
M1204V - M1204 - M1104



M1304V  
M1304VV  
M1204V  
M1204  
M1104



M1304V  
M1304VV  
M1204V  
M1204  
M1104



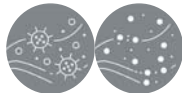
#### Without staples

M1304V  
M1304VV  
M1204V  
M1204  
M1104

### M1304V

Tubular textile elastic

- Very comfortable to wear



### M1304VV

Tubular textile elastic

- Very comfortable to wear

Activated charcoal (1)

- Protection from nuisance odours



### M1204V

Tubular textile elastic

- Very comfortable to wear



### M1204

Tubular textile elastic

- Very comfortable to wear



### M1104

Tubular textile elastic

- Very comfortable to wear



M1304V	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
M1304VV	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP3 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.			
M1204V		Box of 10 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.			
M1204	White	Box of 20 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.			
M1104		Box of 20 non woven synthetic fibre disposable masks FFP1. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	NIOSH	NIOSH N95	





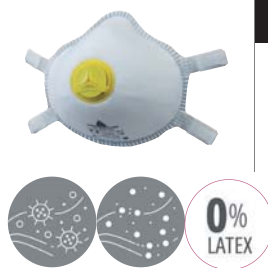
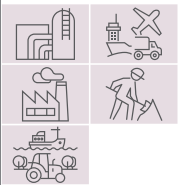
**M1300V**



**M2FP3V**



**M1200VPLUS**



**M2FP2VPLW**



White	Box of 5 non woven synthetic fibre disposable masks FFP3. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N99	

White	Box of 5 non woven synthetic fibre disposable masks FFP2. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N95	

**M1300V2**



**M1200VW**



**M2FP2VW**



White	Box of 10 non woven synthetic fibre disposable masks FFP3. Moulded mask. Nose clip for adjustment. EVA edge for extra comfort under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N99	

Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N95	

**M1200V**



**M2FP2V**



**M1200**



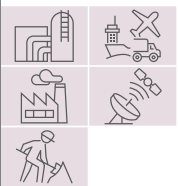
White	Box of 10 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N95	

White	Box of 20 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N95	

**M1100V**



**M1100**



**M3FP1**



White	Box of 10 non woven synthetic fibre disposable masks FFP1. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N95	

White	Box of 20 non woven synthetic fibre disposable masks FFP1. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	CE	EN149	x 10
		<b>NIOSH</b>	NIOSH N95	

**M1300VB**

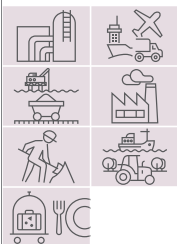
White

Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag.

CE

EN149

x 10

**M1200VB**

White

Box of 10 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE

EN149

x 10

NIOSH

NIOSH  
N95**M1100VB**

White

Box of 10 non woven synthetic fibre disposable masks FFP1. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE

EN149

x 10

**HM11001U**

Blue-White

Dispenser box of 50 Type II disposable medical face masks. Class 1 medical device. 3 pleats. Adjustable nose clip. Elastic ear loops. Non-woven polypropylene.

M/L

CE

EN14683  
II ≥ 98%ISO 22609  
80mmHg

x 40

EN ISO  
13485**M1300VP**

White

Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. Complete foam face joint ring. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE

EN149

x 10

**M1200VP**

White

Box of 10 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE

EN149

x 10

NIOSH

NIOSH  
N95**M1200VPW****Activated charcoal (1)**

► Protection from nuisance odours



Grey

Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.

CE

EN149

x 10

NIOSH

NIOSH  
N95

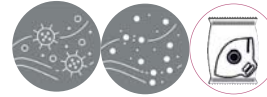
### M1302VBC

- Mask in individual bag  
 • Hygienic and easy to transport  
**Comfort foam**  
 • Provides comfort and tightness



### M1302BC

- Mask in individual bag  
 • Hygienic and easy to transport  
**Comfort foam**  
 • Provides comfort and tightness



### M1202VBC

- Mask in individual bag  
 • Hygienic and easy to transport  
**Comfort foam**  
 • Provides comfort and tightness



### M1202BC

- Mask in individual bag  
 • Hygienic and easy to transport  
**Comfort foam**  
 • Provides comfort and tightness



### M1102VBC

- Mask in individual bag  
 • Hygienic and easy to transport  
**Comfort foam**  
 • Provides comfort and tightness



### M1102BC

- Mask in individual bag  
 • Hygienic and easy to transport  
**Comfort foam**  
 • Provides comfort and tightness



M1302VBC		Box of 15 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag.			
M1302BC		Box of 30 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. Hygienic individual plastic bag.			
M1202VBC	White	Box of 15 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag.	CE	EN149	x 10
M1202BC		Box of 30 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. Hygienic individual plastic bag.			
M1102VBC		Box of 15 non woven synthetic fibre disposable masks FFP1. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag.			
M1102BC		Box of 30 non woven synthetic fibre disposable masks FFP1. Nose clip for adjustment. Hygienic individual plastic bag.			





*Delta Plus provides protection at work from head to toe for both women and men*



# HAND PROTECTION



## CUT PROTECTION

Criteria to choose a glove *HELP WITH CHOICE*

Cut resistant gloves *HELP WITH CHOICE*

Intense cut work

Long-lasting cut work

Slightly sharp and long-lasting work

Slightly sharp and non intensive work

068

070

072

073

080

082

## MECHANICAL PROTECTION FOR PRECISION WORKS

Works in dry environment

Specific works

Works in wet environment

Works in oily environment

086

089

090

091



## MECHANICAL PROTECTION FOR MULTI PURPOSE WORKS

Works in dry environment

Works in wet environment

Works in oily environment

092

098

100

## MECHANICAL PROTECTION FOR HEAVY WORKS

Works in oily environment

Works in wet environment

Specific works

101

102

103



## CHEMICAL PROTECTION

Choose the right glove according to the chemical environment

*HELP WITH CHOICE* 104

Work with prolonged chemical resistance 106

Work with occasional chemical resistance 114

Disposable 116



## THERMAL PROTECTION

Leather gloves *HELP WITH CHOICE* 122

Thermal cold works 118

Thermal welding works 124

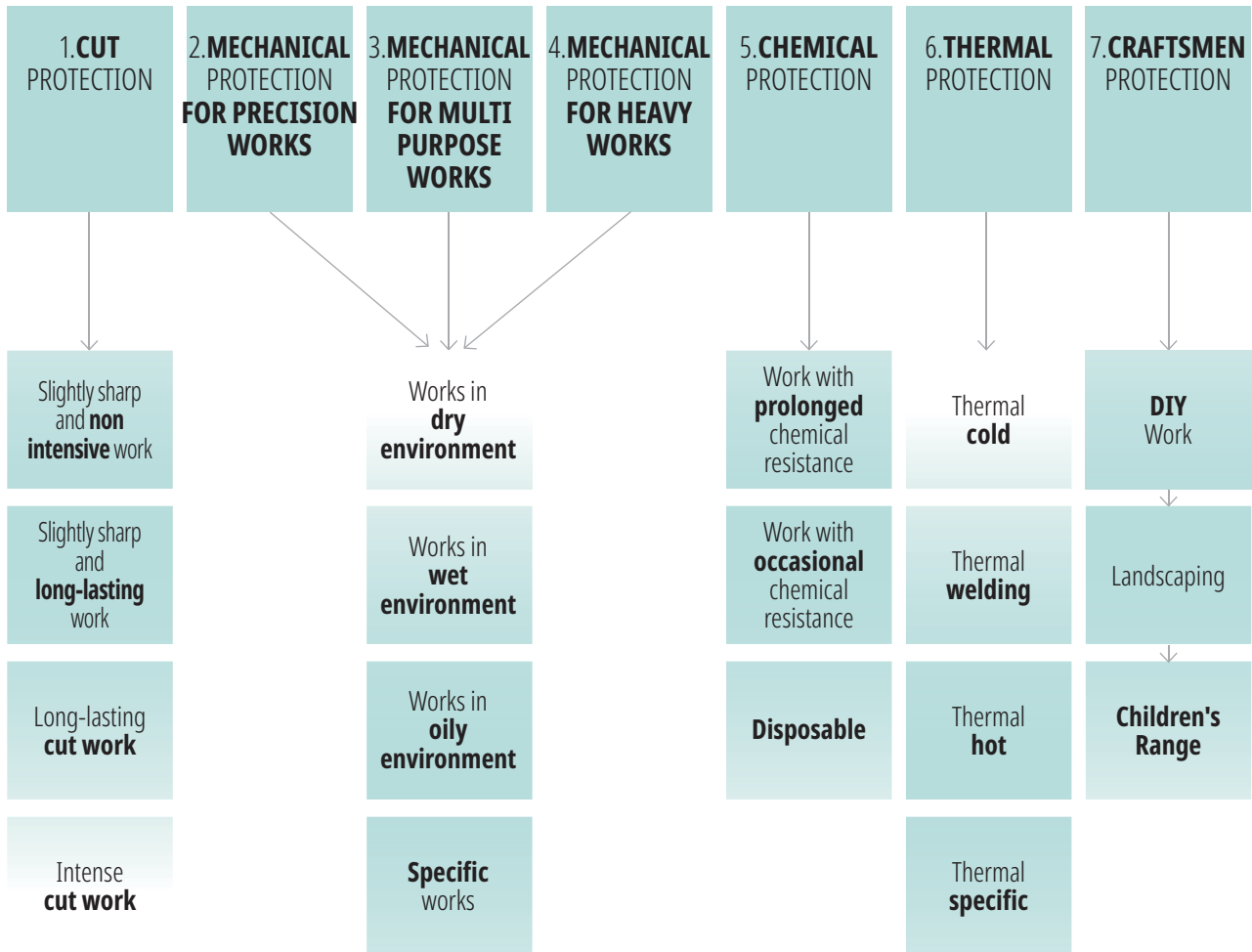
Thermal specific works 128

## TECHNICAL INFORMATION

366-371



# Criteria to choose a glove:



## How to identify sizes ?

Color code system for gloves and certain leather gloves

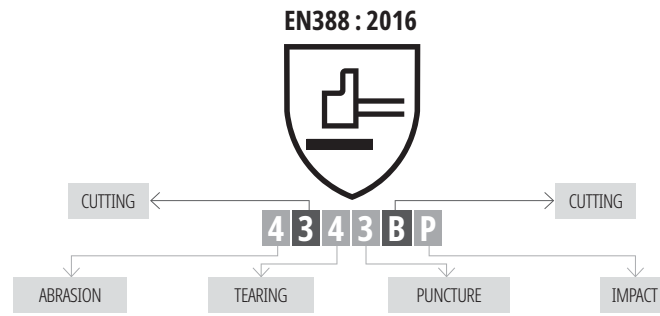
Uniform sizes for easy identification.

Refer to page 366 to find the correct size

6	7	8	9	10	11	12
Red	Yellow	Brown	Black	Blue	Grey	Green

Each article falls under the EN388 standard which is the entry key for our glove range.

As a reminder, it takes into account several criteria: abrasion, cut, tear, perforation and impact (optional).



**1** Identify potential risks:

**Primary risks**

**2** Define the type of glove that best suits your needs in terms of secondary needs:

**Secondary / specific needs**

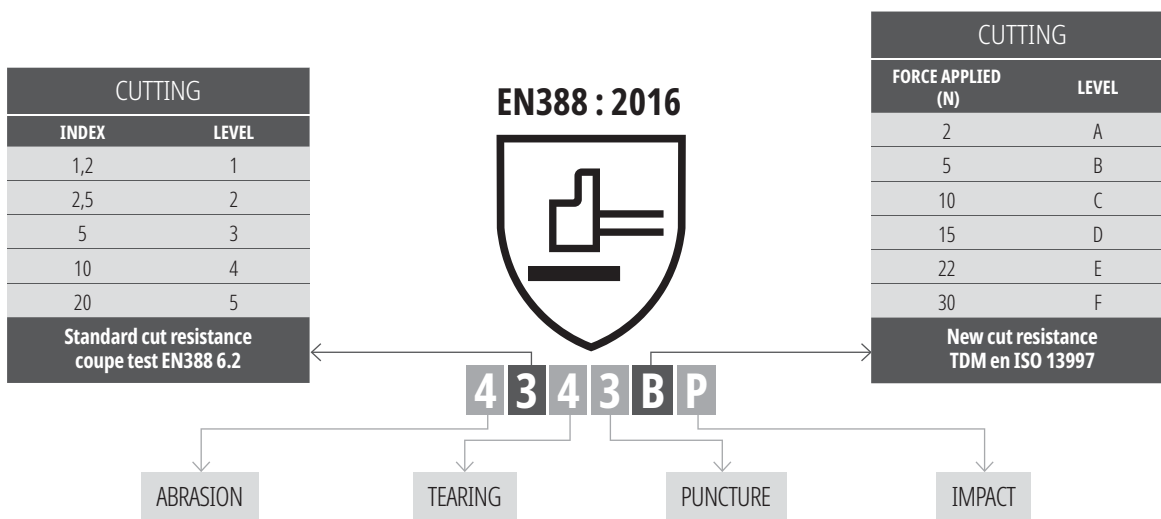
**3** Select the most suitable product by using technical data and objective ergonomic criteria from our customers and users

**Product ergonomics**





# Cut resistant gloves



For gloves made of very resistant materials (materials that blunt the blade during the test), the Coupe Test is no longer relevant, a TDM test becomes mandatory. The TDM test is also more representative of work situations with high risk of cut.

## The fibres

### XTREMcute+

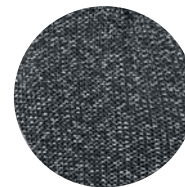
Your ally in extreme cutting conditions

- ▶ Association of innovative fibers that guarantee optimal cut protection.



### DELTAncut®

- ▶ Polymer **high resistance**.
- ▶ **Maximum dexterity**.
- ▶ **Washable**: hygienic, gloves can be re-used.
- ▶ **Reduced thickness**: Fine touch and better breathability.
- ▶ **Soft touch**: texture provides comfort and feeling of freshness all day.



### HEATnocut

For maximum safety and a good contact-heat protection

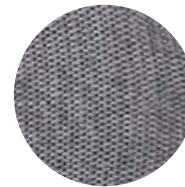
- ▶ Cut resistance **adapted to the risk**
- ▶ High level of **abrasion** resistance.
- ▶ Heat resistance **up to 100°C or 250°C depending on the model**.



### SOFTnocut

To combine safety and comfort

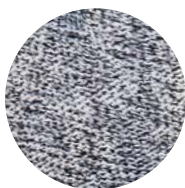
- ▶ **Excellent cut resistance**.
- ▶ Maximum **abrasion** performance.
- ▶ Soft fibre: High level of **comfort**.



### ECONocut

To combine safety and «attractive price»

- ▶ Different levels of cutting resistance.
- ▶ Good abrasion performance.
- ▶ **Economical fibre**: good price.





# Full range

	 <p><b>&gt; 5 N</b></p> <ul style="list-style-type: none"> <li>• Packing</li> <li>• Electronics and repair</li> <li>• Coating Finishing Tiling</li> <li>• Assembly</li> </ul>	 <p><b>&gt; 10 N</b></p> <ul style="list-style-type: none"> <li>• Automotive Assembly</li> <li>• Home appliance assembly</li> <li>• Maintenance and service</li> <li>• Handling and installation of glazing</li> </ul>	 <p><b>&gt; 15 N</b></p> <ul style="list-style-type: none"> <li>• Handling of composite materials</li> <li>• Handling of glass plates</li> <li>• Handling and assembly of cladding</li> <li>• Finishing work on sharp pieces</li> <li>• Metal work</li> </ul>	 <p><b>&gt; 22 N</b></p> <ul style="list-style-type: none"> <li>• Handling of heavy sharp parts</li> <li>• Handling of sharp metal parts</li> <li>• Cutting of metals</li> </ul>	 <p><b>&gt; 30 N</b></p> <ul style="list-style-type: none"> <li>• Intensive cutting works</li> <li>• Assembly of heavy pieces</li> <li>• Metal press forming</li> <li>• Stamping</li> </ul>
<b>RECOMMENDED USES</b>	 <p>EOS FLEX CUT B VV921</p>  <p>VENICUTB05</p>  <p>VENICUTB07</p>  <p>VENICUTB01 (VENICUT32ESD)</p>  <p>ATON VV731</p>	 <p>EOS FLEX CUT D VV922</p>  <p>EOS NOCUT VV910</p>  <p>EOS NOCUT WINTER VV913</p>  <p>VENICUTD05</p>  <p>VENICUTD06</p>	 <p>APOLLON WINTER CUT VV737</p>  <p>XTREM HEAT TERK500</p>	 <p>XTREM CUT TOUCH VENICUTF02</p>	
	 <p>VENICUTB00 (VENICUT30)</p>  <p>VENICUTB02</p>  <p>VENICUTB06 (VENICUT36GR)</p>	 <p>VENICUTC01 (VENICUT41GN)</p>  <p>VENICUTC05 (VENICUT55)</p>  <p>VENICUTC02 (VENICUT42GN)</p>  <p>VENICUTCM1 (VENICUT5M)</p>	 <p>VENICUTD03 (VENICUT53)</p>  <p>VENICUTDX0 (VENICUT50)</p>  <p>VENICUTD09</p>  <p>KPG10</p>  <p>VENICUTD04 (VENICUT54BL)</p>  <p>VENICUTDX1 (VENICUT5X1)</p>  <p>VENICUTD02 (VENICUT52)</p>  <p>VENICUT59LP LIGHT PLUS</p>  <p>KCA15</p>	 <p>XTREM CUT VENICUTF01</p>  <p>VENICUTF03</p>	
	 <p>VENICUTB03G3 (VENICUT33G3)</p>  <p>VENICUTB04G3 (VENICUT34G3)</p>	 <p>VENICUTC03G3 (VENICUT43G3)</p>  <p>VENICUTC04G3 (VENICUT44G3)</p>	 <p>VENICUTD07G3 (VENICUT57G3)</p>  <p>VENICUTD08G3 (VENICUT58G3)</p>  <p>ECONOCUTDM1 (ECONOCUT5M)</p>		



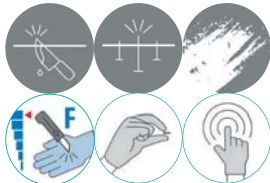
**VENICUT F XTREM CUT TOUCH - VENICUTF02**

Fibre Xtrem CUT

- The highest level of cut protection on the market
- Comfort and flexibility for heavy work

Nitrile/TPU foam blend

- Flexibility and dexterity
- Reduced transpiration thanks to its very good breathability



**VENICUTF03 XTREM CUT - VENICUTF03**

Fibre Xtrem CUT

- The highest level of cut protection on the market
- Comfort and flexibility for heavy work

Reinforcement between the thumb and index finger (1)

- Increased protection
- Increased lifespan



**VENICUT F XTREM CUT - VENICUTF01**

Fibre Xtrem CUT

- The highest level of cut protection on the market
- Comfort and flexibility for heavy work



VENICUT F XTREM CUT TOUCH - VENICUTF02	Navy blue-Black	Xtrem CUT high performance fibre. Foam nitrile and TPU coating on palm and fingertips. Gauge 18.			EN388  <b>4X43F</b>		
VENICUTF03 XTREM CUT - VENICUTF03	Grey	Xtrem CUT high performance fibre. Polyurethane coating on palm and fingertips. Reinforcement between the thumb and index finger. Gauge 13.	06 - 07 - 08 - 09 - 10 - 11	CE	EN388  <b>4X42F</b>	ANSI-ISEA 105 <b>A6</b>	x 60
VENICUT F XTREM CUT - VENICUTF01	Grey-Black	Xtrem CUT high performance fibre. Gritty foam nitrile coating on palm and fingertips. Gauge 13.			EN388  <b>4X43F</b>		

The concept of global protection is an inherent part of Delta Plus' DNA. Inspired by this, the hand protection team has been working on a new way to protect workers. The key words: durability, increased protection, flexibility, comfort, resistance, ... helped our R&D team to develop a new range with a totally new look. Innovation is at the heart of the design, development and implementation of this range. Designed, developed and manufactured by our production site in China, Delta Plus is proud to be one of the manufacturers of innovative gloves that accompany you on a daily basis.

**Laetitia Guillerm**, Hand Protection Product Expert

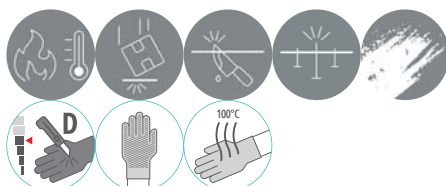
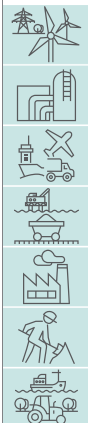
## EOS FLEX CUT D WV922

Injection moulding technique combined with a cut protection support (1)

- Integral protection of the hand against cuts, shocks, blows and pinches

**Elastic TPE coating**

- Comfort, flexibility and dexterity throughout the day



EOS FLEX CUT D WV922	Black	SOFTnocut high performance fibre. Hand coated with moulded TPE. Gauge 13.	08 - 09 - 10 - 11	CE	EN388 EN407 

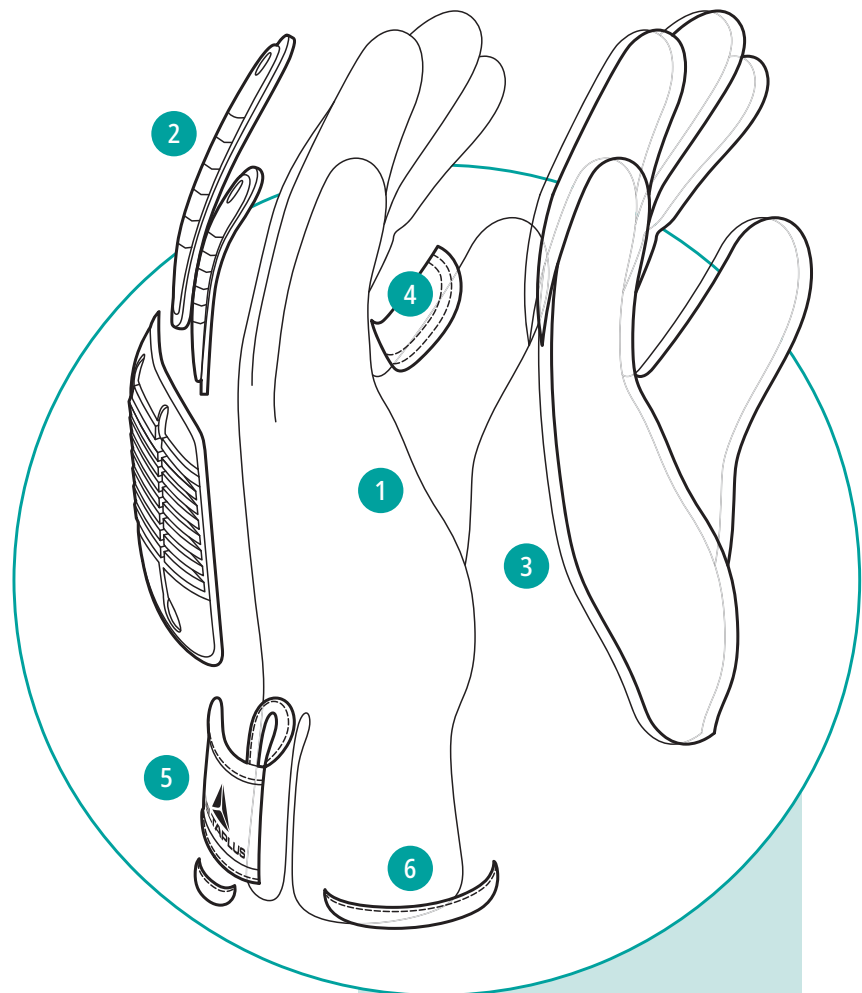


Initially, we developed this glove for targeted uses in the oil industry, but in the end, it has shown more usage possibilities ! We have combined several materials and techniques to make this "multi-protection" glove: cut resistant thread, nitrile double coating, reinforcements to protect from pinching and shocks. This versatility makes **EOS NOCUT** a must-have on the market.

**Laetitia Guillerm**, Hand Protection Product Expert

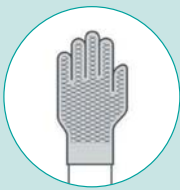


**Safe, qualitative and very comfortable; the EOS NOCUT is surely one of the gloves with the most interest on the market!**



- 1- Insert on the palm
- 2- Metacarpal reinforcement
- 3- Double coating
- 4- Reinforcement
- 5- Clamping Velcro band
- 6- Woven HDPE wire structure + fibreglass





**Double nitrile coating for oily work**

- ▶ 1st smooth nitrile coating : impermeable to oils
- ▶ 2nd nitrile foam coating : good adhesion

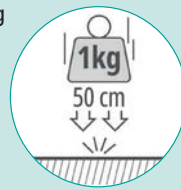
EOS NOCUT W910  
EOS NOCUT WINTER W913



**Double nitrile coating for oily work Flexible reinforcements**

- ▶ Increased protection from impacts and pinches

EOS NOCUT W910  
EOS NOCUT WINTER W913



Protection against impact in the metacarpal area. After an energy impact of 5J, the force transmitted to the back of the hand cannot exceed 4 kN

EOS NOCUT W910  
EOS NOCUT WINTER W913

**EOS NOCUT W910**

Reinforcement between the thumb and index finger and on the palm (1)

- ▶ Increased protection

Available only with header card (2)

Very good abrasion and cut resistance

- ▶ Increased lifespan

Kevlar® thread stitching

- ▶ Increased lifespan

8 cm cuff with Velcro closure

- ▶ Perfect adjustment

- ▶ Reduced discomfort at the wrist, during prolonged use



**EOS NOCUT WINTER W913**

Acrylic interior support (1)

- ▶ Excellent comfort all day long
- ▶ Maintains heat



EOS NOCUT W910	Yellow-Grey-Black	High performance polyethylene support. Thermoplastic (TPR) reinforcement on back and fingertips. Smooth nitrile coating/foam nitrile on palm and fingertips. Embossed inside reinforcement on palm. Kevlar® thread on all the seams.	08 - 09 - 10 - 11	CE	EN388  <b>4X43DP</b>	ANSI-ISEA 105 <b>A4</b> x 60
EOS NOCUT WINTER W913		High performance polyethylene support. TPR reinforcement on back and fingertips. Double smooth nitrile coating/foam nitrile on palm and fingertips. Embossed inside reinforcement on palm. Inside acrylic lining. Kevlar® thread on all the seams.			EN388  <b>4X44DP</b>	

The versatility of gloves is becoming a real asset in a constantly evolving market. Delta Plus' choice to develop, design and perfect a range ahead of its time will enable it to meet the needs of today but above all of tomorrow!  
The prowess lies in the combination of a fibre that provides cut protection, thermal protection and antistatic protection with the finest gauge sold on the market today. This range has been designed for users concerned about the perfect gesture! Protecting both the wearer and the objects handled thanks to the absence of DMF, silicone, latex... Its plus, the models proposed are washable for a longer life span.

Laetitia Guillerm, Hand Protection Product Expert

# This is THE must-have cut-resistant range to have right at your fingertips!

## VENICUTD05

Solvent-free coating (1)

- Suitable for sensitive people
- Respectful of the environment
- Ideal for the automotive industry
- No traces on the objects handled

Gauge 18 (2)

- Very good dexterity and work finesse

**Tested before and after washing:**  
unchanged performance

- Increased lifespan for better profitability

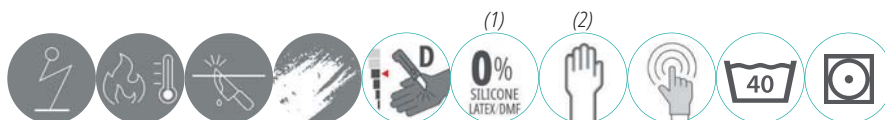
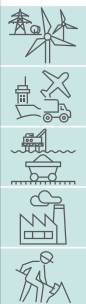
Can be used in an ESD environment (Electrostatic discharge hazard)



## VENICUTD06

Nitrile micro-foam coating (1)

- Good resistance to abrasion
- Extra-thin finish for greater dexterity



VENICUTD05	Black	DELTAAnocut® high performance fibre. Water-based polyurethane coating on palm and fingertips. Gauge 18.	06 - 07 - 08 - 09 - 10 - 11	CE	EN388	EN407	EN16350	ANSI ANSI-ISEA 105 A4	x 60
VENICUTD06		DELTAAnocut® high performance fibre. Nitrile micro-foam coating on palm and fingertips. Gauge 18.			3X41D	X1XXXX			

### VENICUTD03 (VENICUT53NO)

**DELTAAnocut® fibre**

• Very soft texture for great comfort all day

**Nitrile coating (1)**

• Very good mechanical performance

• Good grip in oily/ greasy environment

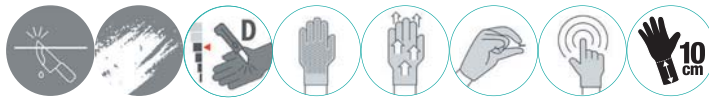
**Nitrile micro-foam coating**

• Good resistance to abrasion

• Extra-thin finish for greater dexterity

**Gauge 15**

• Very good dexterity and work finesse



### VENICUTD04 (VENICUT54BL)

**Double nitrile coating for oily work (1)**

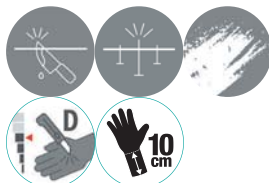
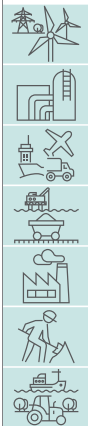
• 1st smooth nitrile coating : impermeable to oils

• 2nd nitrile foam coating : good adhesion

**High coating**

• Very good protection of the hand

• Long life of the glove



### VENICUTDX1 (VENICUT5X1)

**Split leather**

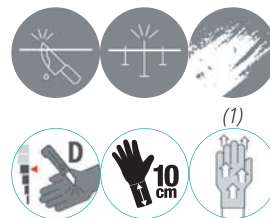
• Reinforced abrasion resistance

• Suitable for heavy work

**Polyurethane coating (1)**

• Very soft and breathable material bringing comfort and dexterity

• Good abrasion and tear resistance



VENICUTD03 (VENICUT53NO)	Grey-Black	DELTAAnocut® high performance fibre. Nitrile micro-foam coating on palm and fingertips. Gauge 15.	07 - 08 - 09 - 10		EN388 	
VENICUTD04 (VENICUT54BL)	Black	DELTAAnocut® high performance fibre. Double nitrile coating. Gauge 13.	08 - 09 - 10 - 11	CE	4 X 4 3 D EN388 	ANSI-ISEA 105 A4 x 60
VENICUTDX1 (VENICUT5X1)	Grey	DELTAAnocut® high performance fibre. Polyurethane coating and cowhide on palm and fingertips. Gauge 13.	09 - 10 - 11		EN388 	ANSI-ISEA 105 A5
					4 X 4 3 D	

**VENICUTD09**

**SOFtnocut**

- Excellent cut resistance (level D)
- Unparalleled finesse of touch

**Polyurethane coating (1)**

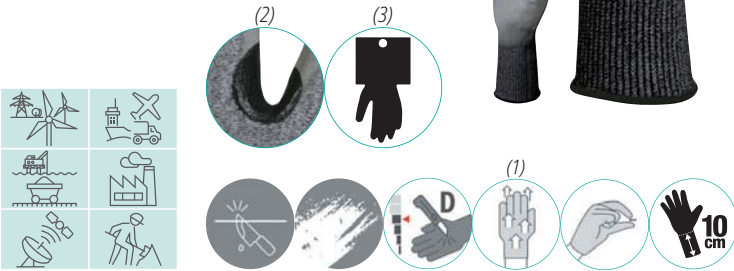
- Very soft and breathable material bringing comfort and dexterity
- Good abrasion and tear resistance

**Reinforcement between the thumb and index finger (2)**

- Increased protection
- Increased lifespan

Also available with header card

DPVENICUTD09 (3)



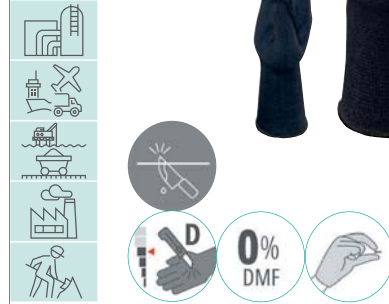
**VENICUT59 LIGHT PLUS**

**DELTAAnocut+**

- Excellent cut resistance (level D)
- Unparalleled finesse of touch (13 gauge)

**Uncoated support**

- Increased protection of manipulated objects



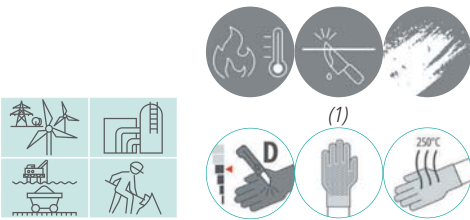
**VENICUTD02 (VENICUT52)**

**HEATnocut high performance fibre**

- Contact heat (250°C for 15 seconds) and cut resistance
- Very good level of abrasion resistance

**Latex coating (1)**

- Good resistance to abrasion
- Rough finish for excellent grip on handled objects



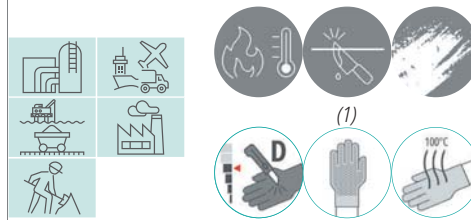
**VENICUTD01**

**HEATnocut high performance fibre**

- Contact heat (100°C for 15 seconds), and cut resistant
- Very good level of abrasion resistance

**Nitrile foam coating (1)**

- Excellent resistance to abrasion
- Rough finish for excellent grip on handled objects



VENICUTD09	Grey	SOFtnocut high performance fibre. Polyurethane coating on palm and fingertips. Reinforcement between the thumb and index finger. Gauge 13.	06 - 07 - 08 - 09 - 10 - 11	EN388	ANSI-ISEA 105 A4	x 60	
DPVENICUTD09			09 - 10 - 11				4X42D
VENICUT59 LIGHT PLUS	Black	DELTAAnocut®+ high performance fibre. 12 cm cuff. Gauge 13.	06 - 07 - 08 - 09 - 10 - 11	EN388	ANSI-ISEA 105 A3		
				3X4XD	ANSI		
VENICUTD02 (VENICUT52)	Yellow-Grey-Black	HEATnocut high performance fibre. Latex coating on palm and fingertips. Gauge 10.	07 - 08 - 09 - 10	EN388 EN407	ANSI-ISEA 105 A4		
VENICUTD01			07 - 08 - 09 - 10 - 11	3X42D X2XXXX			
		HEATnocut high performance fibre. Foam nitrile coating on palm and fingertips. Gauge 13.		EN388 EN407			
				4X42D X1XXXX			



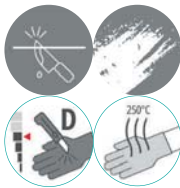
### VENICUTDX0 (VENICUT50)

HEATnocut high performance fibre

- Contact heat (250°C for 15 seconds) and cut resistance
- Very good level of abrasion resistance

Split leather

- Reinforced abrasion resistance
- Suitable for heavy work



### ECONOCUTDM1 (ECONOCUT5M)



### VENICUTD07 (VENICUT57GR)



### VENICUTD08 (VENICUT58)



VENICUTDX0 (VENICUT50)	Yellow-Grey	HEATnocut high performance fibre. Cowhide leather on palm and fingertips. Gauge 10.	09 - 10	CE	EN388 4X42D	EN407 X2XXXX	x 60
ECONOCUTDM1 (ECONOCUT5M)	Grey	ECONOCUT high performance fibre. Knitted sleeve with thumbhole. Length 55 cm. Gauge 13. Bag of 1 pair.	One size		EN388 2X4XD	ANSI ANSI-ISEA 105 A4	
VENICUTD07 (VENICUT57GR)	Grey-Black	ECONOCUT high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 - 08 - 09 - 10		EN388 4X43D		x 40
VENICUTD08 (VENICUT58)	Grey	ECONOCUT high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 - 08 - 09 - 10 - 11		EN388 4X42D		

**VENICUTC02 (VENICUT42GN)**

Reinforcement between the thumb and index finger (1)

- Increased protection
- Increased lifespan

**VENICUTC01 (VENICUT41GN)**

Reinforcement between the thumb and index finger (1)

- Increased protection
- Increased lifespan



VENICUTC02  
(VENICUT42GN)

Grey

SOFTnocus high performance fibre. Polyurethane coating on palm and fingertips. Reinforcement between the thumb and index finger. 10 cm cuff. Gauge 15.

07 - 08 - 09  
- 10 - 11

CE

EN388



4 X 4 3 C



ANSI-ISEA 105  
A3

x 60

VENICUTC01  
(VENICUT41GN)

Grey-Black

SOFTnocus high performance fibre. Foam nitrile coating on palm and fingertips. Reinforcement between the thumb and index finger. 10 cm cuff. Gauge 15.

**Delta Plus provides protection at work from head to toe for both women and men**

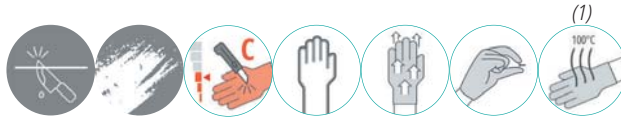
**SLIGHTLY SHARP AND LONG-LASTING WORK**

**VENICUTC05 (VENICUT55)**

HEATnocut high performance fibre (1)

- ▶ Contact heat (100°C for 15 seconds) and cut resistance
- ▶ Very good level of abrasion resistance

Food compatibility



**VENICUTCM1 (VENICUT5M)**

HEATnocut high performance fibre (1)

- ▶ Contact heat (100°C for 15 seconds), and cut resistant
- ▶ Very good level of abrasion resistance



**VENICUTC04 (VENICUT44)**



**VENICUTC03 (VENICUT43)**



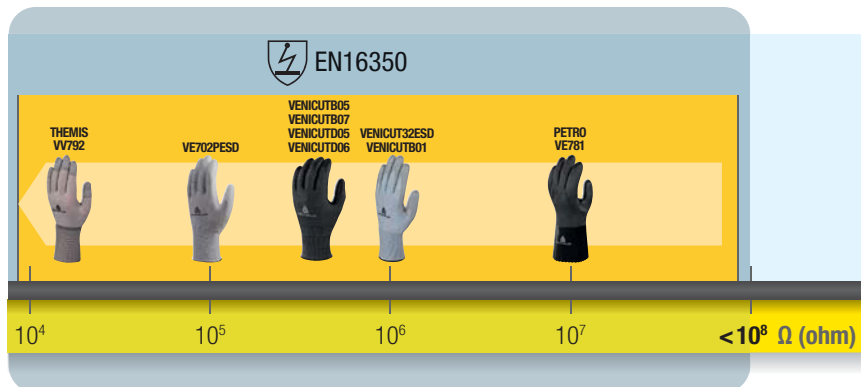
VENICUTC05 (VENICUT55)	Yellow-Grey	HEATnocut high performance fibre. Gauge 10.	07 - 09 - 10	EN388 EN407
VENICUTCM1 (VENICUT5M)	Grey-Yellow	HEATnocut high performance fibre. Knitted sleeve with thumbhole. Length 45 cm. Gauge 13.	One size	3 X 4 X C X 1 X X X X X
VENICUTC04 (VENICUT44)	Grey	ECONOCUT high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 - 08 - 09 - 10	EN388 4 X 4 2 C
VENICUTC03 (VENICUT43)	Grey-Black	ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.		EN388 4 X 4 3 C



Car industry stakeholders are always looking for productivity gains. For this, they are aimed at manufacturers who can develop, design and manufacture products that meet their expectations. Their major wish was to have a versatile glove, protecting both the risk of cutting (level B) but also allowing dissipation of the electrostatic charge : we have developed the VENICUT32 ESD for them ! Coming from a best-sellers market (VENICUT32GR), this new model completes a deep range and is suited to all needs !

*Laetitia Guillerm, Hand Protection Product Expert*

## The range specially designed for Electrostatic Discharge (ESD) environments!



According to EN16350, electrostatic properties of protective gloves, the electrical resistance through a glove must be less than  $10^8 \Omega$ . These gloves help protect you from the risk of explosion by dissipating (as much as possible) the electrostatic electricity naturally present in the human body. They must be used in conjunction with shoes and antistatic clothing. The user must also be grounded. The performance obtained on our gloves ensures a high level of efficiency.



### VENICUTB01 (VENICUT32ESD)

**DELTAAnocut® fibre (1)**

• Very soft texture and optimal fit for all-day comfort

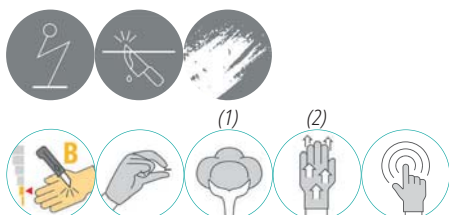
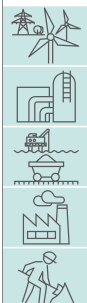
**Polyurethane coating (2)**

• Very soft and breathable material bringing comfort and dexterity

• Good abrasion and tear resistance

**Carbon fibre**

• High electrostatic dissipation to reduce the risk of explosion



P.89



**VE702PESD**



### VENICUTB05

**Solvent-free coating (1)**

• Suitable for sensitive people

• Respectful of the environment

• Ideal for the automotive industry

• No traces on the objects handled

**Gauge 18 (2)**

• Very good dexterity and work finesse

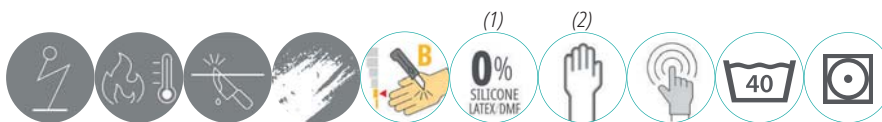
**Carbon fibre**

• High electrostatic dissipation to reduce the risk of explosion

**Tested before and after washing:**

**unchanged performance**

• Increased lifespan for better profitability



### VENICUTB07

**Nitrile micro-foam coating (1)**

• Good resistance to abrasion

• Extra fine finish for increased dexterity



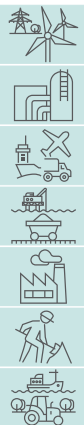
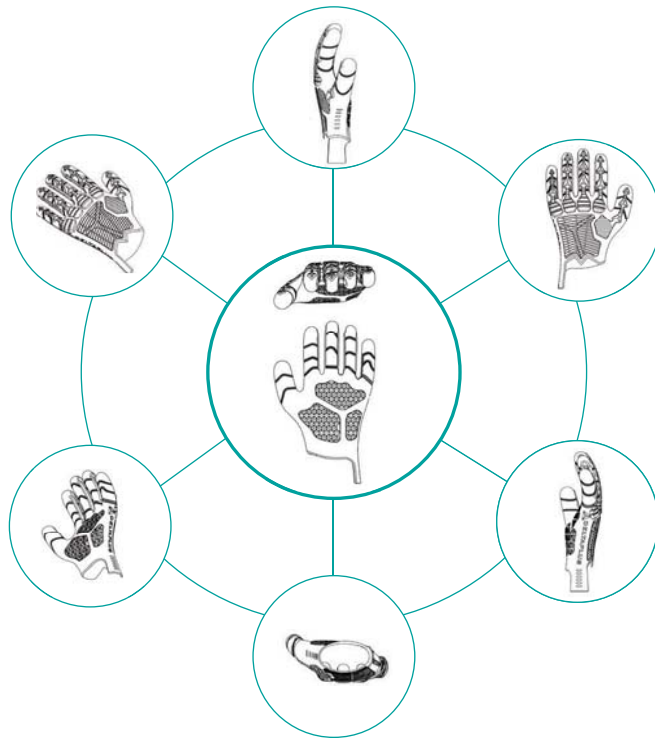
VENICUTB01 (VENICUT32ESD)	Grey	DELTAAnocut® high performance fibre and carbon fibre. Polyurethane coating on palm and fingertips. Gauge 15.			EN388 EN16350 3 X 4 2 B ≤ 1,22 x 10 <sup>6</sup>		
VENICUTB07	Black	DELTAAnocut® high performance fibre and carbon fibre. Nitrile micro-foam coating on palm and fingertips. Gauge 18.	06 - 07 - 08 - 09 - 10 - 11	CE	EN388 EN407 EN16350 3 X 3 1 B X 1 X X X X	ANSI ANSI-ISEA 105 A2	x 60
VENICUTB05		DELTAAnocut® high performance fibre and carbon fibre. Water-based polyurethane coating on palm and fingertips. Gauge 18.					

**EOS FLEX CUT B WV921**

Injection moulding technique combined with a cut protection support

• Integral protection of the hand against cuts, shocks, blows and pinches

Elastic TPE coating • Comfort, flexibility and dexterity throughout the day



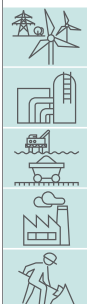
EOS FLEX CUT B WV921	Black	SOFInocut high performance fibre. Hand coated with moulded TPE. Gauge 13.	08 - 09 - 10	CE EN388 EN407 x 60

**Delta Plus provides protection at work from head to toe for both women and men**

### VENICUTB02

Polyurethane coating (1)

- Very soft and breathable material bringing comfort and dexterity
- Very good abrasion and tear resistance



### VENICUTB00

Food compatibility

- Blue colour • Ideal in food environment due to its easy visual identification



### VENICUTB06 (VENICUT36)

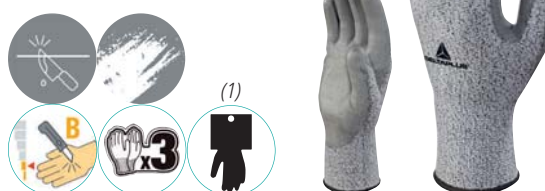
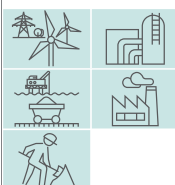
Gauge 18 (1)

- Very good dexterity and work finesse



### VENICUTB04 (VENICUT34)

Also available with header card DPVECUTB04 (1)



### VENICUTB03 (VENICUT33)



VENICUTB02	Grey	Softnucut high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13.			EN388		x 120
VENICUTB00	Blue-White	SOFTnucut high performance fibre. Gauge 15.	06 - 07 - 08 - 09 - 10 - 11		EN388		x 60
VENICUTB06 (VENICUT36)		SOFTnucut high performance fibre. Nitrile coating on palm and fingertips. Gauge 18.			EN388	ANSI-ISEA 105 A2	
VENICUTB04 = VENICUT34	Grey	ECONOCUT high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.		CE	EN388		x 120
DPVECUTB04 (DPVENICUT34)		ECONOCUT high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13.	07 - 08 - 09		EN388		
VENICUTB03 (VENICUT33)	Grey-Black	ECONOCUT high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	06 - 07 - 08 - 09 - 10 - 11		EN388		x 40

### VV704

Second skin effect (1)

Fine touch (2)

Gauge 18 (3)

- Very good dexterity and work finesse (Thin gauge of the market)

Dark color

- Non-messy glove, increased lifespan



### SAFE & STRONG VV811

Solvent-free coating (1)

- Suitable for sensitive people
- Respectful of the environment
- Ideal for the automotive industry
- No traces on the objects handled

Water-base polyurea : soft, breathable and abrasion resistant

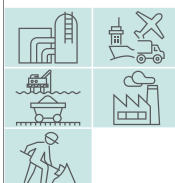
- Limit hand fatigue
- Reduction of perspiration
- Increased lifespan

Washable at 40°C

- Reusable

Suitable for wet, oily and dry environments

- Versatile use



### HESTIA VV702NO

Double polyamide weave (1)

- Very high density support for very good support and maximum dexterity

Gauge 15 (2)

- Very good dexterity and work finesse



### VENICUT10

Polyurethane coating (1)

- Very soft and breathable material bringing comfort and dexterity

- Good abrasion and tear resistance

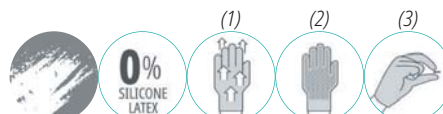
Polyurethane coating (2)

- Good anti-slip grip

Gauge 15 (3)

- Very good dexterity and work finesse

Protection from mechanical risks and the handled object (imprints, sweating)



VV704	Dark Blue	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 18.	06 - 07 - 08 - 09 - 10 - 11		EN388  <b>2 1 2 1 X</b>
HESTIA VV702NO	Black	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 15.	06 - 07 - 08 - 09 - 10		EN388  <b>4 1 3 1 X</b>
VENICUT10	Blue	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 15.	06 - 07 - 08 - 09 - 10 - 11		x 120
SAFE & STRONG VV811	Navy blue-Grey	100% Polyamide. Solvent free polyurethane coating on palm and fingertips. Gauge 15.	06 - 07 - 08 - 09 - 10 - 11		



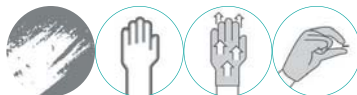
**VE702GR**

Seamless knit

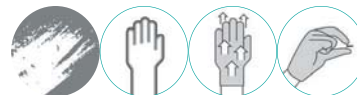
• More comfort for prolonged glove wear

Grey colour

• Handling of soiled objects



**VE702**



**VE702PG**

Also available with header card DPVE702PG (1)

**VE702PGS**

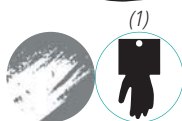


**VE702P**

Also available with header card DPVE702P (1)

**VE702PN**

**VE702PNG12**



VE702GR	Grey	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 13.	06 - 07 - 08 - 09 - 10	CE	EN388 3121X	x 240
VE702	White					
VE702PG	Grey	100% polyester. Polyurethane coating on palm and fingertips. Gauge 13.	06 - 07 - 08 - 09 - 10 - 11	CE	EN388 3121X	x 120
DPVE702PG			06 - 07 - 08 - 09 - 10			
VE702PGS		100% polyester. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 1 pair.	06 - 07 - 08 - 09 - 10 - 11	CE	EN388 3121X	x 240
VE702P	White	100% polyester. Polyurethane coating on palm and fingertips. Gauge 13.	06 - 07 - 08 - 09 - 10			
DPVE702P					CE	EN388 3121X
VE702PN	Black	100% polyester. Polyurethane coating on palm and fingertips. Gauge 13.	06 - 07 - 08 - 09 - 10 - 11	CE		
VE702PNG12					08 - 09 - 10 - 11	x 20

**VE631****VE630**

Blue-Black

100% polyester. Foam latex coating on palm and fingertips. Gauge 13.

07 - 08 -  
09 - 10

EN388



x 120

**2131X**

Grey-Black

100% polyester. Latex coating on palm and fingertips. Gauge 13.

07 - 08 -  
09 - 10

EN388



x 120

**2131X****50MAC**Shock protection for the palm  
Association of leather and cotton

• Comfort, flexibility and dexterity throughout the day

**CT402**

White

Lambskin full grain leather. Reinforced palm. Knitted open-work back.

08 - 09 -  
10 - 11

x 120

Natural-  
Blue

Goatskin full grain leather palm. Cotton jersey back. American assembly.

07 - 08 -  
09 - 10  
- 11

EN388



x 120

**2111X****PM159****PM160**Colourless  
White

100% foam polyamid. 6-cm long knit wrist. Gauge 13. Ambidextrous.

07 - 08  
- 09

EN388



x 300

**214XX**

White

100% foam polyamid. 6-cm long knitted wrist. PVC dots on palm. Gauge 13.

07 - 09



EN388



x 300

**214XX****TP169****COB40**

White

Polycotton. PVC dots on palm. Gauge 7.

07 - 09



EN388



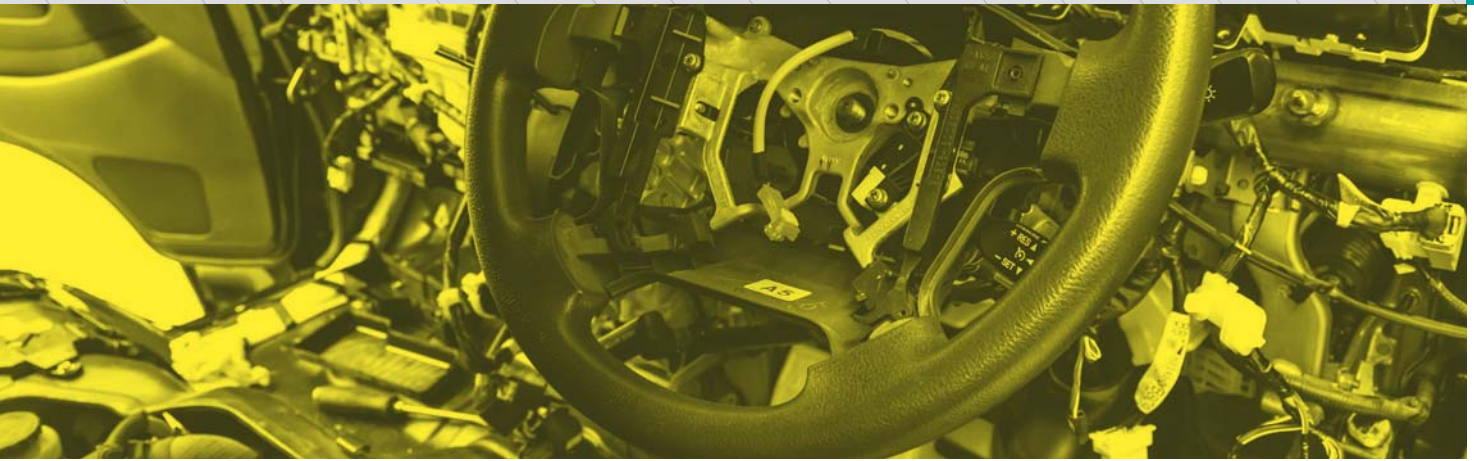
x 300

**X12XX**

White

Bleached cotton 180 g/m<sup>2</sup>. Fourchette assembly.06 - 07 -  
08 - 09

x 600



# The range specially designed for Electrostatic Discharge (ESD) environments!

According to EN16350, electrostatic properties of protective gloves, the electrical resistance through a glove must be less than  $10^8 \Omega$ . These gloves help protect you from the risk of explosion by dissipating (as much as possible) the electro-static electricity naturally present in the human body. They must be used in conjunction with shoes and antistatic clothing. The user must also be grounded. The performance obtained on our gloves ensures a high level of efficiency.

**VE702PESD**  
 Carbon fibre  
 • High electrostatic dissipation to reduce the risk of explosion  
 Can be used in an ESD environment (Electrostatic discharge hazard)

**THEMIS W792 ESD**  
 Copper fibre  
 • More efficient than carbon in electrostatic discharge  
 Can be used in an ESD environment (Electrostatic discharge hazard)

P.82

**VENICUTB01 (VENICUT32ESD)**

P.83

**VENICUTB05**

P.83

**VENICUTB07**

VE702PESD	White	Carbon polyester. Polyurethane coating on palm and fingertips. Gauge 13.	06 - 07 - 08 - 09 - 10 - 11	EN388 EN16350 X 240 CE <b>3 12 1 A</b> $\leq 6,38 \times 10^5$
THEMIS W792 ESD	Rust-coloured-Grey	Copper polyamide. Polyurethane coating on fingertips. Gauge 15.		EN388 EN16350 X 120 X 13 XX $< 1 \times 10^5$

### APOLLONIT W734

Gauge 15 (1)

- Finesse of touch
- Very comfortable

Nitrile/TPU foam blend (2)

- Flexibility and dexterity
- Reduced transpiration thanks to its very good breathability

Nitrile/TPU foam quality

- Level of abrasion twice as good
- Touch function



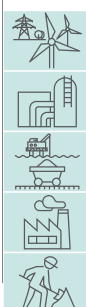
### VE723NO

Nitrile coating

- Very good mechanical performance
- Good grip in oily/ greasy environment

Gauge 15 (1)

- Very good dexterity and work finesse



### VE724NO

Non-slip dots (2)

- Good grip of handled objects

Also available with header card  
DPVE724RO (3)



### DPVE724RO



### VE725NO

3/4 coating

- Very good protection of the back of the hand



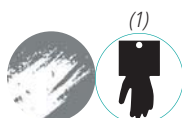
APOLLONIT W734	Fluorescent yellow-Black	Polyester/Spandex. Foam nitrile and TPU coating on palm and fingertips. Gauge 15.			EN388 3121X
VE723NO	Black	Polyester/Spandex. Foam nitrile coating on palm and fingertips. Gauge 15.	07 - 08 - 09 - 10 - 11	CE	EN388 4121X x 120
VE724NO		Polyester/Spandex. Nitrile coating on palm and fingertips. Nitrile dots on palm. Gauge 15.			
DPVE724RO	Black-Red				
VE725NO	Black	Polyester/Spandex. Nitrile coating on palm, fingertips and mid back. Nitrile dots on palm. Gauge 15.			

**Delta Plus provides protection at work from head to toe for both women and men**



**VE712GR**

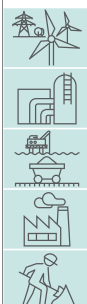
Nitrile coating  
 • Very good mechanical performance  
 • Good grip in oily/ greasy environment  
 Also available with header card  
 DPVE712GR (1)



**VE712GR10**



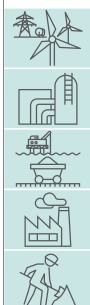
**VE715GR**



**DPVE715**



**VE722**



**DPVE716**

Flexible nitrile foam coating  
 Available only with header card (1)



VE712GR	Black-Grey	100% polyester. Nitrile coating on palm and fingertips. Gauge 13.	07 - 08 - 09 - 10 - 11	CE	ISO 18889	x 240	
VE712GRG10		100% polyester. Nitrile coating on palm and fingertips. Gauge 13.	09 - 10		EN388 3 1 2 1 X	x 24	
DPVE712GR	Grey-Black	100% polyester. Nitrile coating on palm and fingertips. Gauge 13.	07 - 08 - 09 - 10 - 11		EN388 3 1 2 1 X	x 120	
VE715GR	Black-Grey		07 - 08 - 09 - 10		EN388 2 1 2 1 X		
DPVE715	White-orange Black-Blue Black-Red Black-Green	100% polyester. Nitrile coating on palm, fingertips and half-back. Gauge 13.	07 - 09 08 10 06 - 07		EN388 4 1 2 1 X	x 60	
VE722	Grey-Black	100% polyester. Foam nitrile coating on palm and fingertips. Gauge 13.	07 - 08 - 09 - 10				
DPVE716	Orange	Foam nitrile on polyamide lining. Fully coated. Gauge 15.	07 - 09 - 10				



## EOS W900JA

Double layer of polyamide/ polyurethane on palm with non-slip PVC dots (1)

- Longer life due to its very good abrasion resistance
- Good grip of handled objects

Flexible reinforcements (2)

- Increased protection from impacts and pinches

Reinforcement between the thumb and index finger and on the palm. (3)

- Increased lifespan

Identification badge

Belt attachment (4)

Available only with header card (5)

Protection of the metacarpal area against low energy shocks <2J

8 cm cuff in neoprene

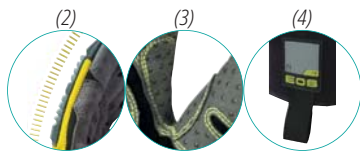
- Good glove retention for high security

Velcro closure

- Perfect adjustment
- Reduced discomfort at the wrist, during prolonged use

Yellow colour

- Easy visual identification at the workstation



EOS W900JA	Yellow-Grey-Black	Polyester/polyurethane back. PVC reinforcements. Polyamide/polyurethane palm with PVC dots. Kevlar® seams. 8 cm cuff in neoprene.	08 - 09 - 10 - 11 - 12	CE	EN388 3233 BP	ANSI-ISEA 105 A2	x 60
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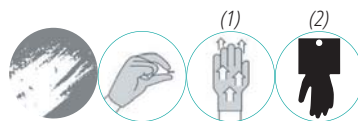
### SAFE & TOUCH WV905NO

- 3 cut-off fingers (1)
- Maximum precision for manipulating objects
- Non-slip reinforcements (2)
- Very good grip of small items
- Available only with header card (3)
- Velcro closure
- Perfect adjustment
- Reduced discomfort at the wrist, during prolonged use



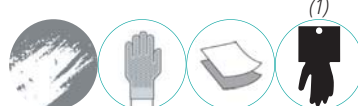
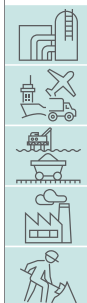
### BOREE WV901

- Aerated back (1)
- Very good ventilation of the hand
- Available only with header card (2)
- Velcro closure
- Perfect adjustment
- Reduced discomfort at the wrist, during prolonged use



### ATHOS WV902

- Available only with header card (1)
- Flexible reinforcements
- Increased impact protection
- Velcro closure
- Perfect adjustment
- Reduced discomfort at the wrist, during prolonged use



SAFE & TOUCH WV905NO	Black-Yellow	Polyester/elasthane back. Artificial leather palm. Cuff in neoprene.	07 - 08 - 09 - 10 - 11	CE	EN388
BOREE WV901			07 - 09		2121X
ATHOS WV902	Yellow-Grey-Black	Polyester/elasthane back. Polyamide palm. PVC reinforcements on back and palm. Cuff in mesh.	10 - 11		EN388
					3131X



**APOLLON W733**

Latex foam

- Increased breathability (feeling of freshness)
- Dexterity and comfort

**Fluorescent support**

- Easy visual identification at the workstation

Also available with header card

DPVW733OR

DPVW733JA

DPVW733VL

DPVW733E (1)

**W733G6**



**DPW733**



**DPW733N**



**DPW733E**



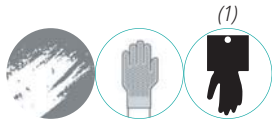
APOLLON W733	Fluorescent yellow-Black Fluorescent orange-Black	100% high quality polyester. Foam latex coating on palm and fingertips. Gauge 13.	07 - 08 - 09 - 10	  <b>2 131 X</b> x 120
DPW733	White-Purple Fluorescent yellow-Black Fluorescent orange-Black	100% high quality polyester. Latex coating on palm and fingertips. Gauge 13.	07 07 - 08 - 09 - 10 07 - 08 - 09 - 10	
W733G6	Fluorescent yellow-Black	100% high quality polyester. Latex foam coating on palm and fingertips. Gauge 13.	09 - 10	
DPW733N	Black-Purple Black-Pink Black-Green	100% polyester. Foam latex coating on palm and fingertips. Gauge 13.	07 - 08	
DPW733E	White-Purple	100% high quality polyester. Latex coating on palm and fingertips. Gauge 13.	04	

**Delta Plus provides protection at work from head to toe for both women and men**



### VE7300R

Also available with header card  
 DPVE730 (1)

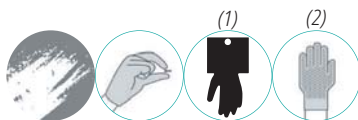


### DPW831

Available only with header card (1)

Latex coating (2)

- Rough finish for excellent grip on handled objects
- Flexibility, elasticity and tactility



### LA500

Cotton interlock support with ventilated back

- Comfort
- Increased breathability

Quality coating

- Good grip



VE7300R	Yellow-orange	Polycotton. Rough latex coating on palm and fingertips. Gauge 10.	08 - 09 - 10 - 11	CE	x 120	
DPVE730	Yellow-orange		08 - 10			EN388 2142X
DPW831	Green	Polycotton. High quality latex coating on palm, fingertips and mid back. Gauge 10.				EN388 2121X
LA500	Green	Latex rough-textured on cotton Interlock lining. Knitted wrist. Ventilated back.	07 - 08 - 09 - 10			



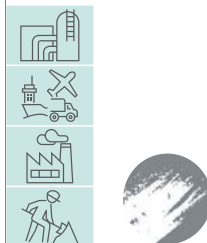
**FB149**

- Superior quality
- Increased lifespan
  - Comfortable to wear
  - Flexibility



**51FEDF**

- Goat leather
- Flexibility and dexterity
  - Good mechanical resistance
- Artery protection
- Wrist protection



FB149	Beige	Cowhide full grain leather. High quality leather. American assembly.			EN388
					<b>3122X</b>
					EN388
					<b>2111X</b>
51FEDF	Natural	Goatskin full grain leather. American assembly. Full index. Knitted wrist and vein protection.	08-09 -10	CE	x 120

**Delta Plus provides protection at work from head to toe for both women and men**

**GFBLE**  
 Artery protection  
 • Wrist protection





**FBN49**  
 Also available with header card  
 DPFBN49 (1)







**FCN29**





**DS202RP**






**DC103**  
 Also available with header card  
 DPDC103 (1)






GFBLE		Cowhide full grain leather. American assembly. Knitted wrist and vein protection.	08 - 09 - 10 - 11	CE	EN388 x 120
FBN49	Natural	Cowhide full grain leather. American assembly.	07 - 08 - 09 - 10 - 11		3122X x 60
DPFBN49					
FCN29		Cowhide grain leather palm. Full index. Cowhide split leather back. American assembly.	08 - 09 - 10 - 11		EN388 2121X
DS202RP	Grey-Blue	Cowhide split leather with cotton canvas lining. Reinforcement on palm, thumb and index. Canvas back with leather reinforcement. Reinforced canvas cuff.			EN388 4223X x 120
DC103	Yellow-Blue	Cowhide split leather. Canvas back with leather reinforcement. Reinforced canvas cuff.	10		EN388 2111X
DPDC103	Beige-Navy blue				



**Gauge 15**  
 • Very good dexterity and work finesse  
 VE727  
 VE729  
 VE726



**Non-slip dots**  
 • Good grip of handled objects  
 VE727  
 VE729

**ATON W731**

**Latex coating**

- Good resistance to abrasion
- Rough finish for excellent grip on handled objects



**VE727**

**Nitrile/polyurethane coating**

- Oil resistance
- Flexibility of work and increased comfort
- Very good mechanical performance

Also available with header card  
 DPVE727 (1)



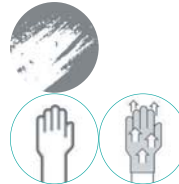
**VE729**

**Nitrile/polyurethane coating**

- Oil resistance
- Flexibility of work and increased comfort
- Very good mechanical performance

**3/4 coating**

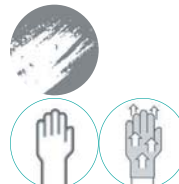
- Very good protection of the back of the hand



**VE726**

**Nitrile/polyurethane coating**

- Oil resistance
- Flexibility of work and increased comfort
- Very good mechanical performance



ATON W731	Black	Polycotton/Para-aramide. Latex coating on palm and fingertips. Gauge 10.	08 - 09 - 10 - 11	CE	EN388 3342B	EN511 X 2 X	EN407 X2XXXX	x 60
VE727	Grey-Black	Polyamide/Spandex. Nitrile/Polyurethane coating on palm and fingertips. Nitrile dots on palm. Gauge 15.	07 - 08 - 09 - 10		EN388 3121X			x 120
DPVE727								
VE729								
VE726		Polyamide/Spandex. Nitrile/Polyurethane coating on palm and fingertips. Gauge 15.	07 - 08 - 09 - 10 - 11					



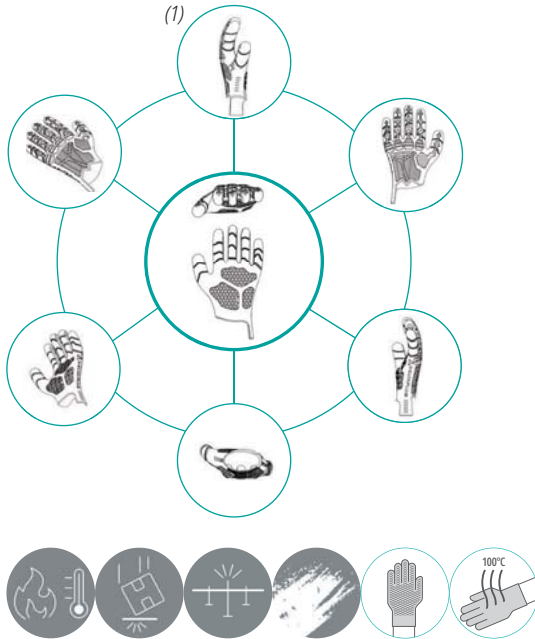
### EOS FLEX W920

Injection moulding technique (1)

• Integral protection of the hand against shocks, blows and pinches

**Elastic TPE coating**

• Comfort, flexibility and dexterity throughout the day



### VE733

PURE latex coating

• Manufactured under conditions which respect the environment

• Minimises the risk of skin irritation

**Embossing finish (1)**

• Good grip of handled objects

• Very good adhesion in wet or dry environments

Available only with header card

DPVE733VE (2)



### DPVE733



### NI015



EOS FLEX W920	Black	100% high quality polyester. Hand coated with moulded TPE.	08 - 09 - 10 - 11	CE	EN388 	EN407 
VE733	Orange-Blue	100% polyester. PURE latex coating on palm and fingertips. Gauge 13.	07 - 08 - 09 - 10 - 11		EN388 	EN407 
DPVE733	White-Green	100% polyester. PURE latex coating on palm and fingertips. Gauge 15.	07 - 08 - 09 - 10		<b>2141A</b>	<b>X2XXXX</b>
NI015	Yellow	Light nitrile on interlock cotton lining. Knitted wrist. Ventilated back.	07 - 08 - 09 - 10 - 11		EN388 	<b>2111X</b>

**WET & DRY WV636BL**

**Nitrile coating (1)**

- Very good mechanical performance
- Good grip in oily/ greasy environment

**Double nitrile coating for oily work (2)**

- 1st smooth nitrile coating : impermeable to oils
- 2nd nitrile foam coating : good adhesion

**100% polyamide support (3)**

- Very good comfort

**Gauge 15**

- Lightness and flexibility



**VE713**

**Nitrile coating (1)**

- Very good mechanical performance
- Good grip in oily/ greasy environment

**Double coating**

- Increased lifespan
- Very good resistance to abrasion

**High coating**

- Very good protection of the hand



WET & DRY WV636BL	Blue-Black	100% polyamide. Full nitrile coating of the hand. Second foam nitrile coating on palm and fingertips. Gauge 15.	07 - 08 - 09 - 10	CE	EN388	x 120
VE713	Black	100% polyamide. Double nitrile coating on palm, fingers and half back. Gauge 13.			3 1 2 1 X	x 240

**NI170**

Nitrile on cotton jersey lining

- Not very sensitive to heat
- Ideal in oily and greasy environments

Cotton jersey lining with ventilated back

- Comfort
- Increased breathability

Safety cuff 6 cm

- Good protection of the garment
- Easy implementation



**NI175**

Nitrile on cotton jersey lining

- Not very sensitive to heat
- Ideal in oily and greasy environments

6-cm safety cuff

- Good protection of the garment
- Easy implementation

Fully coated hand

- Protection of the back of the hand



**NI150**

Nitrile on cotton jersey lining

- Not very sensitive to heat
- Ideal in oily and greasy environments

Cotton jersey lining with ventilated back

- Comfort
- Increased breathability



**NI155**

Nitrile on cotton jersey lining

- Not very sensitive to heat
- Ideal in oily and greasy environments

Fully coated hand

- Protection of the back of the hand



NI170	Blue	Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Ventilated back.	10	CE	EN388 3111X x 120
NI175		Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Fully coated.	09 - 10 - 11		
NI150		Nitrile on cotton jersey lining. Knitted wrist. Ventilated back.	07 - 08 - 09 - 10		
NI155		Nitrile on cotton jersey lining. Knitted wrist. Fully coated.	10		

**FIBKV02**

Tested according to ASTM F2975 - Test method that determines the incident energy required to cause a second-degree burn

• ATPV : 54 cal/cm<sup>2</sup> on the palm

**Kevlar® lining (1)**

• Increased resistance to cut, tear and puncture

**Water repellent treatment applied on the reverse hide full grain (2)**

• Ten times more effective than the grain

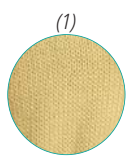
**Double coating**

• Increased lifespan

• Very good resistance to abrasion

**High coating**

• Very good protection of the hand



**FIB49**

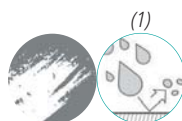
**Water repellent treatment applied on the reverse hide full grain (1)**

• Ten times more effective than the grain

**Reverse hide full grain leather palm**

• High flexibility

• Very good resistance to abrasion



**CBHV2**

**Water repellent leather (1)**

• Good splash protection

**Artery protection**

• Wrist protection

**Also available with header card**

**DPCBHV2 (2)**



FIBKV02		Water-repellent cowhide full grain leather. Reverse hide cowhide full grain leather palm. 100% Kevlar® Technology knitted lining. 2 threads. Gauge 10.	08 - 09 - 10		EN388 3 2 4 3 B	EN420 4.2 4/4 ≥ 180 mn	EN407 4 2 X 1 X X	ASTM ASTM-F-2675M 53 (CAL/CM <sup>2</sup> )	x 60
FIB49	Beige	Water-repellent cowhide full grain leather. Reverse hide cowhide full grain leather palm.	09 - 10	CE	EN388 3 1 2 2 X				x 120
CBHV2		Water-repellent cowhide full grain leather. American assembly. Knitted wrist and vein protection.	08 - 09 - 10 - 11		EN388	EN420 4.2 4/4 ≥ 180 mn			
DPCBHV2			08 - 10		2 1 3 2 X				x 60





## NYSOS WV904

Single coated glove reduces impact, shock and vibration effects (1)

Flexible reinforcements (2)

► Increased protection from impacts and pinches

Protection of the metacarpals 5J (3)

Anti-vibration (4)

► Reduction of musculoskeletal disorders

Available only with header card (5)

Protection against impact in the metacarpal area. After an energy impact of 5J, the force transmitted to the back of the hand cannot exceed 4 kN

Polyester support

► Soft weave (seamless) for comfortable long wear

► Good dexterity and grip



NYSOS WV904	Yellow-Black	100% Polyester. Palm and fingertips reinforced with rubber pads (0.8 cm thick). Thermoplastic (TPR) back reinforcement. Gauge 7.	10 - 11	EN388 EN ISO10819 4242XP
			CE	x 60

# Choose the right glove according to the chemical environment

CHEM D-FINDER


<http://gloves.deltaplus.eu>

**DELTA PLUS**  
YOUR SAFETY AT WORK

### Chemical gloves search engine

Choosing a glove offering protection for any application is a complicated process. In order to respond to the various issues, Delta Plus offers a wide range of protective gloves designed using different materials (Latex, Nitrile, Neoprene, PVC), which, by nature, have specific behaviour vis-à-vis a chemical product.

Chemical:

CAS Number	Chemical	Letter	Material	Breakthrough	Degradation
1010-73-2	Sodium Hydroxide 40%	K	BASF PVCC400	PVC	6 (+400) 3.7%
7564-93-9	Sulphuric Acid 98%	L	BASF PVCC400	PVC	6 (+400) 12.1%
67-56-1	Methanol	A	BASF PVCC400	PVC	4 (+120) 3.5%

Showing 1 to 3 of 3 entries

Before any searching for any products, ask yourself a few questions. They will guide you through choosing a glove for protection against chemical risks:

- The nature and characteristics of the products handled. For this, help yourself to:
  - The Safety Data Sheet provided by the chemical manufacturer will help you identify the family
  - The CAS number of the substance used written on the product
- LT: The type of contact with chemical products (immersion, splashing)
- The length of time you will wear the gloves
- The skills required
- Factors that could degrade the gloves (associated mechanical risk, electrical, thermal...)
- The surface condition of objects to be manipulated (slippery objects?)
- Individual characteristics of the operator (hand size, allergies...)

Once this analysis is done, you are ready to use the search engine and enable you to choose the product best suited to your environment.

Protection against projections: 0 (< 10 min), 1 (> 10 min), 2 (> 30 min), 3 (> 60 min), 4 (> 120 min), 5 (> 240 min), 6 (> 480 min). Levels 0-2 are red (Not recommended), 3-4 are orange (Medium protection), 5-6 are green (High protection).

Choosing a glove offering protection for any application is a complicated process.

In order to respond to the various issues, Delta Plus offers a wide range of protective gloves designed using different materials (Latex, Nitrile, Neoprene, PVC), which, by nature, have specific behaviour in regards to a chemical product.

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YOUR SAFETY AT WORK

### Chemical gloves search engine

Choosing a glove offering protection for any application is a complicated process. In order to respond to the various issues, Delta Plus offers a wide range of protective gloves designed using different materials (Latex, Nitrile, Neoprene, PVC), which, by nature, have specific behaviour vis-à-vis a chemical product.

Chemical:

CAS Number	Chemical	Letter	Material	Breakthrough	Degradation
71-41-0	Amyl Alcohol 99%		NITREX VE802	NITRILE	6 (+400)
101316-46-5	Benzene		NITREX VE802	NITRILE	6 (+400)
71-36-3	Buyl Alcohol 99%		NITREX VE802	NITRILE	6 (+400)
111-76-2	Buyl Cellulose 99%		NITREX VE802	NITRILE	6 (+400)
7782-50-5	Chlorine gas		NITREX VE802	NITRILE	6 (+400)
1333-82-0	Chromic acid 50%		NITREX VE802	NITRILE	6 (+400)
110-82-7	Cyclohexane		NITREX VE802	NITRILE	6 (+400)
106-93-0	Cyclohexanol 98%		NITREX VE802	NITRILE	6 (+400)

# Supported or not supported ?

Supported: what type of support ?

**Cotton: Natural fibre**

- ▶ *Exceptional comfort - Excellent capacity to absorb moisture - Insulating properties.*

**Polyamide: Synthetic fibre, also called Nylon**

- ▶ *Resistance to traction and abrasion - Elasticity and shape memory - Washable.*

**Polyester: Synthetic fibre**

- ▶ *Resistance to traction and abrasion - Possibility to blend with cotton to enhance comfort.*

**Kevlar®: Para-aramid fibre**

- ▶ *Heat and Cut Resistance - Carbonised between 425° and 475° - Self extinguishing - Softness and high dexterity - Washable.*

Non- supported:

The mould is dipped directly into the material bath.  
Thus, the glove is very supple and allows high dexterity.

**Different types of non supported gloves:**

**Flocked (finished with a deposit of cotton particles):**

- ▶ *Pleasant to the touch, limits transpiration and facilitates donning and removal.*

**Chlorinated (finished by washing the glove in chlorinated water):**

- ▶ *Gives a velvety touch and limits the effects of latex protein allergies.*

**Different types of disposable glove:**

**Powdered (finished with a deposit of powder) :**

- ▶ *Pleasant to the touch, limits transpiration and facilitates donning and removal.*

**Non powdered (finished by washing the glove in chlorinated water) :**

- ▶ *Protects the handled objects while maintaining very good comfort.*



## Materials

- : Not recommended • : Low \*\* : Good \*\*\* : Very good

General features	Polyurethane	Latex	Nitrile	Neoprene	PVC
Abrasion	***	**	***	**	***
Cutting	**	**	**	**	**
Perforation	**	***	***	.	.
Tearing	***	**	***	.	**
Elasticity / Flexibility / Dexterity	***	***	.	**	.
Degradation (heat contact, UV,...)	***	.	**	***	***
Risks of allergy	.	***	.	.	.
Cold environment	**	***	• (-40°C)	***	***
Warm environment	**	***	**	***	• (>80°C)
Oily / greasy environment	.	.	***	***	***

Chemical product family		Latex	Nitrile	Neoprene	PVC
Acetates	<i>Acetate of ethyl (I)</i>	-	**	**	.
Acids	<i>Sulfuric acid (L),</i>	***	**	***	***
Primary alcohol	<i>Methanol (A)</i>	***	***	***	**
Aldehydes (Alcohols & Ketones)	<i>Formaldehyde 37% (T), ...</i>	**	.	.	.
Amine	<i>Diethylamine (G),</i>	-	.	-	-
Bases (Lime, Sodium hydroxide)	<i>Caustic soda (K),</i>	***	**	***	***
Ketone and ketone solvents	<i>Acetone (B)</i>	***	-	.	.
Ether	<i>Tetrahydrofuran (H)</i>	-	-	-	-
Hydrocarbons and derivatives	<i>Acetonitrile (C), n-Heptane (J),...</i>	-	***	***	**
Aromatic solvents (styrene...)	<i>Toluene (F), Xylene</i>	-	***	.	.
Chlorinated solvents	<i>Dichloromethane (D)</i>	-	***	.	-
Aqueous solutions		***	***	***	***





**CHEMSAFE VV835**

Rough structure palm (1)

▸ Very good grip

Triple nitrile coating

▸ Good resistance to abrasion

100% polyamide support

▸ Very good comfort



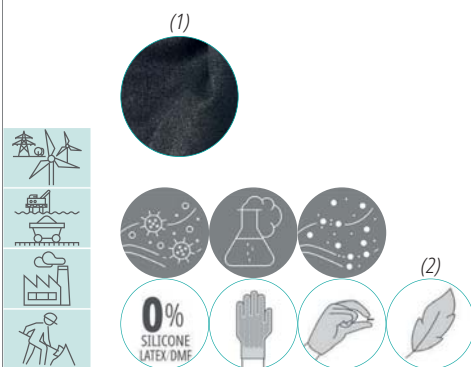
CHEMSAFE VV835	Green	Double nitrile coating on polyamide lining. Third rough foam nitrile coating on palm and fingertips. Length: 35 cm. Thickness: 1.15 mm on cuff - 1.30 mm on palm.	08 - 09 - 10 - 11	EN388  <b>4121X</b> EN ISO 374-1  <b>TYPE B</b> <b>AJ KL</b> EN ISO 374-5 	x 60

**Delta Plus provides protection at work from head to toe for both women and men**



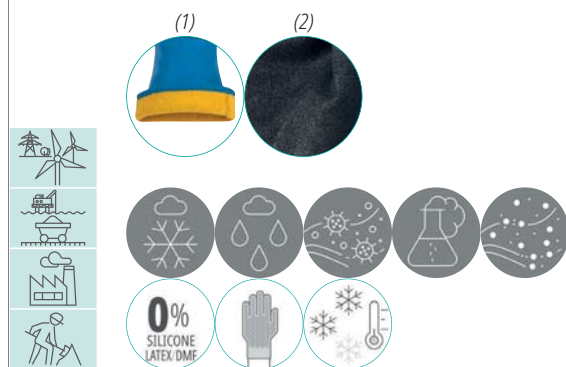
### CHEMSAFE PLUS WV836

- Triple PVC/ nitrile coating
- Good resistance to abrasion
- 100% polyamide support**
- Very good comfort
- Rough structure hand (1)**
- Very good grip
- Gauge 18 (2)**
- Lightness and flexibility



### CHEMSAFE PLUS WINTER WV837

- Triple PVC/ nitrile coating
- Good resistance to abrasion
- Brushed acrylic support (1)**
- Maintaining heat for good thermal protection
- High comfort
- Rough structure hand (2)**
- Very good grip
- Light and flexible**



CHEMSAFE PLUS WV836	Blue	Double PVC/nitrile coating on polyamide lining. Gauge 18. Third rough PVC/nitrile coating on hand. Length: 30 cm. Thickness: 1 mm on cuff - 1.10 mm on palm.	09 - 10 - 11	EN388 3121A
CHEMSAFE PLUS WINTER WV837		Double PVC/nitrile coating on acrylic lining gauge 10. Third rough PVC/nitrile coating on hand. Length: 30 cm. Thickness: 1.15 mm on cuff - 1.35 mm on palm.	CE	EN ISO 374-1 TYPE A KLMNPT
				EN ISO 374-5 EN511 1 1 1
				x 60

**PETRO ESD VE781**

**Metallic fibre**

- High electrostatic dissipation to reduce the risk of explosion

**Textured structure (1)**

- Good grip of handled objects

**PVC**

- Good resistance to abrasion
- Material very resistant to oils, chemicals and petroleum derivatives



30 cm



**PETRO VE766**

**PVC**

- Good resistance to abrasion
- Material very resistant to oils, chemicals and petroleum derivatives

**Textured structure (1)**

- Good grip of handled objects

**Length : 62 cm**

- Complete arm protection



62 cm



**PETRO VE780**

30 cm



PETRO ESD VE781	Black	Chemical PVC. PVC on cotton knitted lining gauge 13 with metal fiber. Rough-textured hand. Length: 30 cm. Thickness: 1.30 mm.	08 - 09 - 10 - 11		EN388 4121X	EN ISO 374-1 TYPE B JKL	EN16350 1,2x10 <sup>7</sup>	x 120
PETRO VE766	Blue	Chemical PVC. PVC on cotton knitted lining gauge 13. Rough-textured hand. Length: 62 cm. Thickness: 1.30 mm.	08 - 09 - 10	CE	EN388 4131X	TYPE B JKL		x 60
PETRO VE780		Chemical PVC. PVC on cotton knitted lining gauge 13. Rough-textured hand. Length: 30 cm. Thickness: 1.30 mm.						x 120

**Delta Plus provides protection at work from head to toe for both women and men**

**WORK WITH PROLONGED CHEMICAL RESISTANCE**

**PVCC400**

PVC

- Good resistance to abrasion
- Material very resistant to oils, chemicals and petroleum derivatives

Length : 40 cm

- Forearm protection



**PVCC600**

Length : 60 cm

- Complete arm protection



**PVC7335**



**PVCGRIP35**

PVC

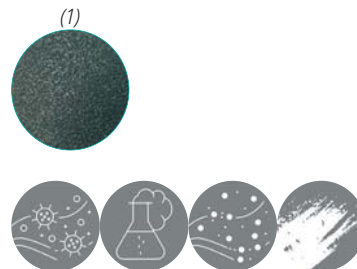
- Good resistance to abrasion
- Material very resistant to oils, chemicals and petroleum derivatives

Knit cotton jersey gauge 10

- Absorption of perspiration and moisture for improved comfort in everyday life

Textured structure (1)

- Good grip of handled objects



PVCC400	Red	Chemical PVC. PVC on interlock cotton lining. Length: 40 cm. Thickness: 1,20 - 1,40 mm.	10	CE	EN388	EN ISO 374-1	x 120	
PVCC600		Chemical PVC. PVC on interlock cotton lining. Length: 60 cm. Thickness: 1,20 - 1,40 mm.			4 13 1 X	TYPE B AKL		x 60
PVC7335	Red	PVC on interlock cotton lining. Length: 35 cm. Thickness 0,90 mm.	09 - 10	CE	EN388	EN ISO 374-1	EN ISO 374-5	x 120
PVCGRIP35	Green	PVC on cotton jersey lining, double-dipped. Length: 35 cm. Thickness 0,90 mm.			2 12 1 X	TYPE C K	x 120	
					EN388	EN ISO 374-1		
					3 13 1 X	TYPE C KN		

**TOUTRAVO VE509**

Embossed structure on palm and fingers (1)

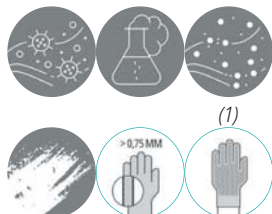
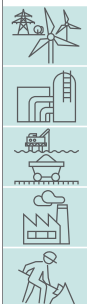
• Improved object grip

**Neoprene**

• Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons

**Flocked inside**

• Absorption of perspiration for comfort



**TOUTRAVO VE510**

Embossed structure on palm and fingers (1)

• Good grip of handled objects

**Neoprene**

• Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons

**Flocked inside**

• Absorption of perspiration for comfort

**Length : 38 cm**

• Forearm protection



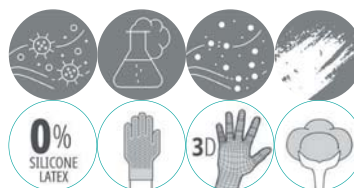
**TOUTRAVO VE511**

Cotton knit gauge 10 (1)

• Absorption of perspiration and moisture for improved comfort in everyday life

**Neoprene**

• Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons



**NEOCOLOR VE530**

**Neoprene/Latex blend**

• Comfort and flexibility for heavy work

**Flocked inside**

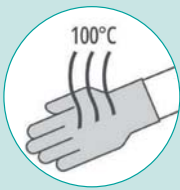
• Absorption of perspiration for comfort



TOUTRAVO VE509		Neoprene with cotton flocklining. Length: 30 cm. Thickness: 0,75 mm.	6/7 - 7/8 - 8/9 - 9/10 - 10/11	CE	EN388 3 1 1 0 X	EN ISO 374-1 TYPE A AKLMN OPT	EN ISO 374-5	x 120
TOUTRAVO VE510		Neoprene with cotton flocklining. Length: 38 cm. Thickness: 0,78 mm.			EN388 2 1 3 2 X	EN ISO 374-1 TYPE A AJKLMNOPT		x 60
TOUTRAVO VE511	Black	Neoprene on cotton knitted lining gauge 10. Length: 38 cm. Thickness 1,40 mm.	9/10 - 10/11		EN388 2 1 2 1 X	EN ISO 374-1 TYPE A JKLNPT	EN ISO 374-5 VOLUS	x 120
NEOCOLOR VE530		Latex/Neoprene mix with cotton flocklining. Length: 30 cm. Thickness: 0,70 mm.	6/7 - 7/8 - 8/9 - 9/10 - 10/11					

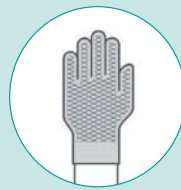


**WORK WITH PROLONGED CHEMICAL RESISTANCE**



**Versatile glove**

- Resistance to chemicals and contact heat of 100°C for 15 seconds
- VENIZETTE VE920
- VENIFISH VE990
- LAT50



**Structure on very rough palm**

- Excellent grip of very slippery objects
- VENIFISH VE990
- LAT50

**VENIZETTE VE920**

Cut cotton interlock stitched (1)

- Absorption of perspiration and moisture for improved comfort in everyday life

**Maximum abrasion performance**

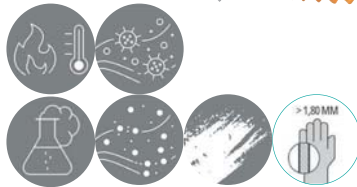
- Increased lifespan



**VENIFISH VE990**

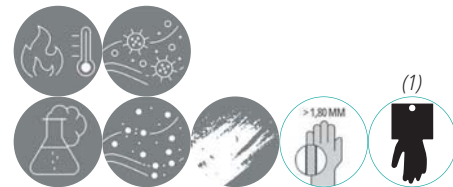
Cut cotton interlock stitched

- Absorption of perspiration and moisture for improved comfort in everyday life



**LAT50**

Also available with header card DPLAT50 (1)



VENIZETTE VE920	Blue	Latex on interlock cotton lining. Length: 30 cm. Thickness: 1,25 mm.	6/7 - 7/8 - 8/9 - 9/10 - 10/11	EN388 4121X	EN ISO 374-1	EN ISO 374-5	EN407 X1XXXX	x 120
VENIFISH VE990	Orange		7/8 - 8/9 - 9/10 - 10/11	CE	TYPE A AKLMNPT			
LAT50	Green	Latex on interlock cotton lining. Rough-textured hand. Length: 30 cm. Thickness: 1,80 mm.						
DPLAT50				7/8 - 9/10	3121X			x 60

**NITREX VE802**

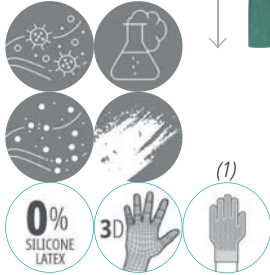
Embossed structure on palm and fingers (1)

- Good grip of handled objects

Flocked inside

- Absorption of perspiration for comfort

33 cm



**NITREX VE803**

Cut cotton interlock stitched (1)

- Absorption of perspiration and moisture for improved comfort in everyday life

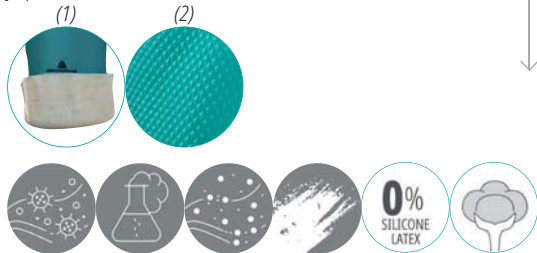
Textured structure (2)

- Good grip of handled objects

Maximum abrasion performance

- Increased lifespan

33 cm



**NITREX VE846**

Chlorinated interior

- Easy glove implementation
- High comfort
- Less risk of allergies

Length : 46 cm

- Complete arm protection

46 cm



**NITREX VE830**

Chlorinated interior

- Easy glove implementation
- High comfort
- Less risk of allergies

Blue colour

- Ideal in food environment due to its easy visual identification

33 cm



**NITREX VE801**

Embossed structure on palm and fingers (1)

- Good grip of handled objects

Flocked inside

- Absorption of perspiration for comfort

Silicone free

- Ideal for the automotive industry
- No traces on the objects handled

33 cm

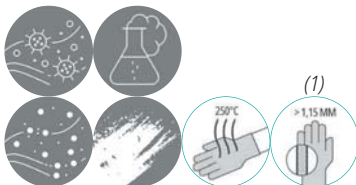


Model	Color	Description	Dimensions	CE	Standards	ISO 18889	Quantity
NITREX VE802		Nitrile with cotton flocklining. Length: 33 cm. Thickness: 0,38 mm.	6/7 - 7/8 - 8/9 - 9/10 - 10/11		EN ISO 374-1 4 1 0 1 X		x 120
NITREX VE803	Green	Nitrile on interlock cotton lining. Length: 33 cm. Thickness: 0,85 mm.	9/10 - 10/11		EN ISO 374-1 TYPE A A J K L M N O P 4 0 1 1 X		x 60
NITREX VE846		Thin nitrile. Chlorinated smooth inside. Length: 46 cm. Thickness: 0,55 mm.	8/9 - 9/10 - 10/11	CE	EN ISO 374-1 EN ISO 374-5 4 1 0 2 X TYPE A A G J K L M N O P		x 36
NITREX VE830	Blue	Thin nitrile. Chlorinated smooth inside. Length: 33 cm. Thickness: 0,20 mm.	7/8 - 8/9 - 9/10 - 10/11		EN ISO 374-1 2 0 0 1 X TYPE A J K L O P T		x 120
NITREX VE801	Green	Nitrile with cotton flocklining. Length: 33 cm. Thickness: 0,40 mm.	07 - 08 - 09 - 10 - 11		EN ISO 374-1 3 1 0 1 X TYPE B J K L	G2	x 120



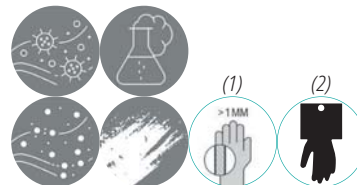
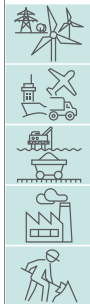
### LA600

Very thick and long (1)  
 ▶ Enhanced protection of the arm



### VENIPRO VE450

Thickness : 1.00 mm (1)  
 ▶ Suitable for heavy duty tasks  
 Also available with header card  
 DPVE450 (2)



LA600	Black	Reinforced latex. Chlorinated inside and outside. Length: 60 cm. Thickness: 1.15 mm.	10/11		EN388  <b>4121X</b>	EN407  <b>X2XXXX</b>	x 36
VENIPRO VE450	Orange	Heavy weight latex with cotton flock lining. Length: 30 cm. Thickness: 1 mm.	8/9 - 9/10 - 10/11	CE	EN ISO 374-1  <b>TYPE A AKLMNOPT</b>	EN ISO 374-5 	x 120
DPVE450			8/9 - 10/11		EN388  <b>3121X</b>		





**EOS OBM VV911**

Protection of the metacarpals 5J (1)

- Flexible reinforcements for better protection against impact and pinching

Cut cotton interlock stitched (2)

- Absorption of perspiration and moisture for improved comfort in everyday life

Available only with header card (3)

Protection against impact in the metacarpal area. After an energy impact of 5J, the force transmitted to the back of the hand cannot exceed 4 kN.

Double coating

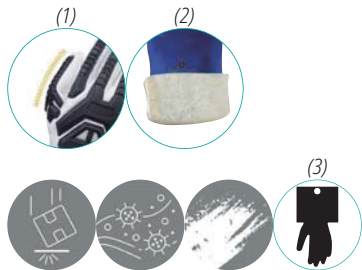
- Increased lifespan

Length : 40 cm

- Complete arm protection



40 cm



EOS OBM VV911	Blue-Yellow	Nitrile on cotton jersey lining. Double coating. Length: 40 cm.	08 - 09 - 10 - 11	CE	EN388 3111XP	EN ISO 374-1 TYPE C A	x 60
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**Delta Plus provides protection at work from head to toe for both women and men**



**WORK WITH OCCASIONAL CHEMICAL RESISTANCE**

**VE440**

**Rough structure (1)**

► Improved object grip

**Flocked inside**

► Absorption of perspiration for comfort

32 cm



**ALPHA VE905**

**Latex**

► Airtightness and water proofing

► Flexibility, elasticity and tactility

**Chlorinated interior**

► Easy glove implementation

► High comfort

► Less risk of allergies

**Tested according to standard EN421**

► Can be used as a glove or under glove against radioactive contamination

30 cm



**DUOCOLOR VE330**

30 cm



**PICAFLORE VE240**

30 cm



**ZEPHIR VE210**

30 cm



VE440	Blue	Latex with cotton flock lining. Length: 32 cm. Thickness: 0,55 mm.		EN388 	EN ISO 374-1 		
ALPHA VE905	Natural	Latex, chlorinated smooth inside. Length: 30 cm. Thickness: 0,40 mm.		1010X 	TYPE A AKLMNPT 	EN421 	
DUOCOLOR VE330	Blue-Yellow	Latex with cotton flock lining, double-dipped. Length: 30 cm. Thickness: 0,60 mm.	6/7 - 7/8 - 8/9 - 9/10	CE 	1010X TYPE A AKLMNPT 	EN ISO 374-5 	x 144
PICAFLORE VE240	Yellow			EN388 	1010X TYPE B KLMPT 		
ZEPHIR VE210	Pink	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm.		EN388 	XX1XX TYPE C KL 		

**VENIPLUS V1500**

**Powder-free gloves**

- Protection from manipulated objects

**Nitrile**

- Airtightness and water proofing
- Flexibility, elasticity and tactility
- No risk of allergies

**Glove tested in accordance with EN ISO 371-1:2016 TYPE B**

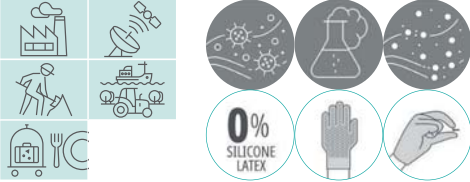
- Protection from certain concentrated chemicals

**Orange colour**

- Easy visual identification at the workstation

**Thickness : 0.17 mm**

- Resistance to chemicals (> 30 min) compared to a conventional disposable glove



**VENITACTYL V1450B100**

**Powder-free gloves**

- Ideal for caterers

**Nitrile**

- Airtightness and water proofing
- Flexibility, elasticity and tactility
- No risk of allergies

**Glove tested in accordance with EN ISO 371-1:2016 TYPE B**

- Protection from certain concentrated chemicals

**Black colour**

- Recommended for mechanics, tattoo artists and caterers thanks to its low messy colour



**VENITACTYL V1400B100**

**Powder-free gloves**

- Protection from manipulated objects

**Nitrile**

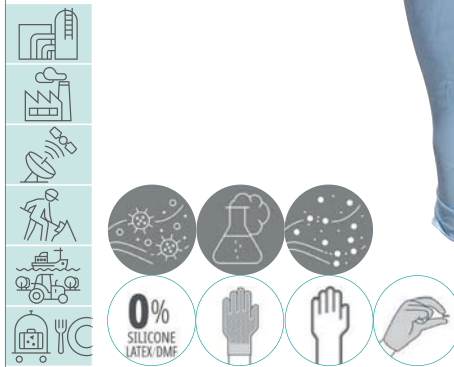
- Airtightness and water proofing
- Flexibility, elasticity and tactility
- No risk of allergies

**Glove tested in accordance with EN ISO 371-1:2016 TYPE B**

- Protection from certain concentrated chemicals

**Blue colour**

- Ideal in food environment due to its easy visual identification



**VENITACTYL V1400PB100**

**Powdered glove**

- Easy glove implementation



VENIPLUS V1500	Orange	Powder-free nitrile. AQL 1,5. Length: 27 cm. Thickness: 0,17 mm. Box of 50 disposable gloves.	7/8 - 8/9 - 9/10 - 10/11		EN ISO 374-1  <b>TYPE B KPT</b>	
VENITACTYL V1450B100	Black	Powder-free nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9 - 9/10 - 10/11	CE	EN ISO 374-5  <b>VIRUS</b>	x 10
VENITACTYL V1400B100	Blue	Powdered nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9 - 9/10		EN ISO 374-1  <b>TYPE B JKT</b>	
VENITACTYL V1400PB100						

### VENIPLUS V1383

**Powder-free gloves**

- Protection from manipulated objects

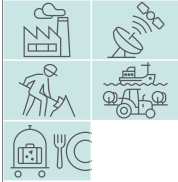
**Glove tested in accordance with EN ISO 371-1:2016 TYPE B**

- Protection from certain concentrated chemicals

**Extra long and thick glove**

**Thickness : 0.25 mm**

- Longer lifespan and increased safety



### VENITACTYL V1310

**Powdered glove**

- Easy glove implementation

**Latex**

- Airtightness and water proofing
- Flexibility, elasticity and tactility

**Glove tested in accordance with EN ISO 371-1:2016 TYPE C**

- Protection from splashing of weakly concentrated chemicals



### VENICLEAN V1340

**Chlorinated interior**

- Easy glove implementation
- Less risk of allergies (latex proteins)



### VENITACTYL V1371

Also available in a box of 10 gloves  
DPV1371 (1)



VENIPLUS V1383	Blue	Powder-free latex, chlorinated inside. AQL 1,5. Length: 30 cm. Thickness: 0,25 mm. Box of 50 disposable gloves.	7/8 - 8/9 - 9/10 - 10/11	CE	EN ISO 374-1  <b>TYPE B</b> K L M P T	x 10	
VENITACTYL V1310	Natural	Powdered latex. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9		EN ISO 374-1  <b>TYPE C</b> K T		
VENICLEAN V1340		Powder-free chlorinated latex. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.			EN ISO 374-1  <b>TYPE C</b> K T		
VENITACTYL V1371	Transparent	Powdered vinyl. Suitable for food industry. AQL 1,5.	6/7 - 7/8 - 8/9 - 9/10				
DPV1371		Box of 100 disposable gloves.	7/8 - 9/10		x 60		



# The versatility of the protections make these gloves real assets in all climatic circumstances!

Extremely cold conditions  
Very light activity levels or special applications requiring additional heat

Very cold conditions  
Light activity levels where the wearer generates little body heat through activity

Cool climate conditions when warmth is needed



**APOLLON WINTER CUT VV737**

The glove for working in extreme conditions ! A very high level of cut protection combined with protection from the cold!



**ATON VV731**

The multi-protection glove !

**THRYM VV736**

Ideal in all climatic conditions... possibly perfect glove !





It is due to listening to our users, demanding gloves assuring several simultaneous protections, including that from the cold that we worked with the convergence of several standards. This ranges from a waterproof glove performing in a cold environment with contact heat resistance to versatile glove that includes touch function or glove combining thermal hazards and cut resistance (Level B or E). Our hybrid gloves become true allies for workers !

**Laetitia Guillerm**, Hand Protection Product Expert

## THRYM W736

### Double full latex coating (1)

- 1st smooth latex coating : waterproof
- 2nd foam latex coating : good adhesion

### Very good resistance to cold and humidity (2)

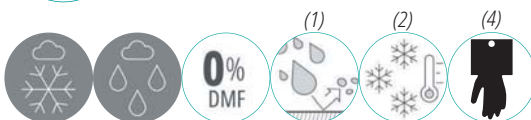
- Ideal in cold environments down to -30°C

### Brushed acrylic support (3)

- Maintenance of warmth during outdoor work
- Great comfort of use

Also available with header card

DPW736 (4)



DPW736 THRYM	Blue-Black	Inside: 100% acrylic gauge 10. Outside: 100% polyamide gauge 15. Full latex coating of the hand. Second foam latex coating on palm and fingertips.	07 - 08 - 09 - 10	EN388  2231X
THRYM W736			09 - 10 - 11	EN511  1 2 1
				EN407  X2XXXX
				x 60



**Protection from the cold**  
 ▶ Ideal in cold environments down to -15°C  
 APOLLON WINTER CUT W737



**Latex foam**  
 ▶ Increased breathability (feeling of freshness)  
 ▶ Dexterity and comfort  
 APOLLON WINTER CUT W737  
 APOLLON WINTER W735

**APOLLON WINTER CUT W737**

Cut protection and brushed acrylic support

- ▶ Ideal in extreme environments
- ▶ Maintains heat
- ▶ Very good cut protection (level E)



P.98



**ATON W731**

**APOLLON WINTER W735**

Brushed acrylic support

- ▶ Maintenance of warmth during outdoor work
- ▶ Great comfort of use



APOLLON WINTER CUT W737	Fluorescent yellow-Black	Acrylic/high performance polyethylene fibre. Foam latex coating on palm and fingertips. Gauge 10.	08 - 09 - 10 - 11	CE	EN388 3X43E	EN511 X3X	ANSI-ISEA 105 A5
APOLLON WINTER W735	Grey-Black Fluorescent yellow-Black	100% acrylic. Foam latex coating on palm and fingertips. Gauge 10.	08 - 09 - 10		EN388 1132X	EN511 X1X	

### BOROK W903

Water repellent back (1)

• Suitable for outdoor work

**3M Thinsulate™ lining (2)**

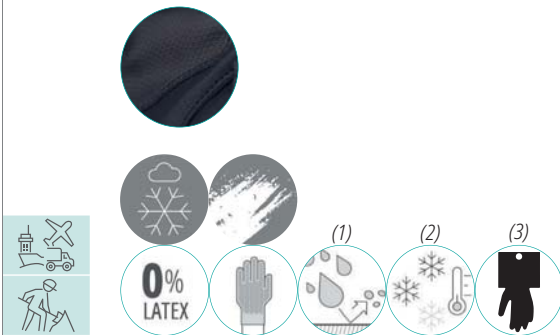
• Resistance to humidity and cold

Available only with header card (3)

**Velcro closure**

• Perfect adjustment

• Reduced discomfort at the wrist, during prolonged use



### HERCULE W750

Protection from the cold (1)

• Ideal in cold environments down to -15°C

**Combination of a double support (2)**

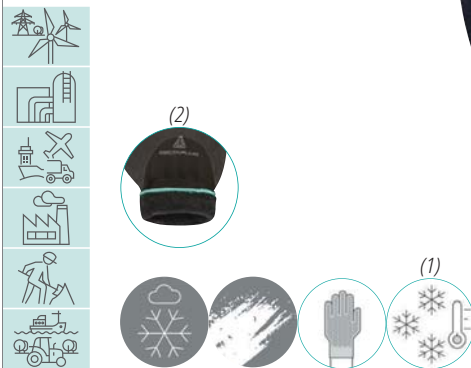
• High comfort

• Heat preservation (interior acrylic support)

• High dexterity (outer polyamide support)

**High coating**

• Very good protection of the hand



### VE728

Non-slip dots (1)

• Good grip of handled objects

**Brushed acrylic interior (2)**

• Maintains heat



BOROK W903	Grey-Black	Polyester back with polyurethane coating. Polyurethane/polyester palm. 3M Thinsulate™ lining. Neoprene wrist.	07 - 09 - 11	CE	EN388 1221X	EN511 110	x 60
HERCULE W750	Black	Inside: 100% acrylic gauge 7. Outside: 100% polyamide gauge 13. 3/4 foam nitrile coating on palm, fingers and half back.	09 - 10		EN388 3221X	EN511 X2X	
VE728	Grey-Black	Polyester/ acrylic. Foam nitrile coating on palm and fingertips. Nitrile dots on palm. Gauge 13.	07 - 08 - 09 - 10		EN388 3121X	EN511 X1X	



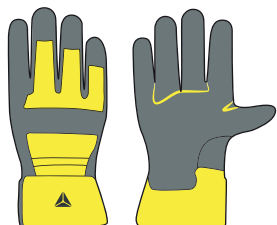
# Leather gloves

## American assembly

Side palm, middle and ring finger form a single piece that is sewn separately to the rest of the palm



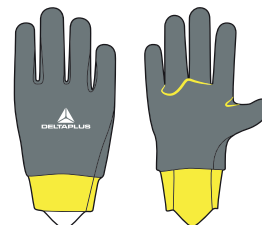
Wing thumb



Docker type



Long wrist or cuff



Latex wrist with vein protection

## Fourchette assembly

The thumb is sewn separately (thumb added). A strip of material is sewn between each finger (fourchette). The glove perfectly matches the shape of the hand.






Round thumb  
Gusset on fingers



Choy thumb

## The benefits of Leather

	Leather type	Abrasion	Durability	Flexibility	Price
 <ul style="list-style-type: none"> <li>• Light</li> <li>• High breathability due to porous texture</li> <li>• Price</li> <li>• Good abrasion resistance</li> <li>• Tends to become softer and more flexible after use</li> </ul>	Fleur	5	3	4	**
 <ul style="list-style-type: none"> <li>• Good durability</li> <li>• Good insulation protection especially against heat</li> <li>• High puncture resistance</li> </ul>	Fleur	2	4	3	***
	Croûte	2	4	2	*
 <ul style="list-style-type: none"> <li>• Good feel touch</li> <li>• Good abrasion and puncture resistance</li> <li>• Good flexibility</li> <li>• Good durability</li> </ul>	Fleur	3	4	4	***

# Choose the best glove for cold environments



### Extremely cold conditions

- Very light activity levels or special applications requiring extra heat



### Very cold conditions

- Levels of light activity where the wearer generates little body heat by activity



### Fresh climate conditions when light heat is needed



**FBF50**

- 3M Thinsulate™ (1)
- Resistance to humidity and cold
- Superior quality (2)**
- Increased lifespan
- Comfortable to wear
- Flexibility
- Carabiner attachment**



**DCTHI**

- 3M Thinsulate™ (1)
- Resistance to humidity and cold



**FBF15**



FBF50	Beige	Cowhide full grain leather with 3M Thinsulate™ lining. Clip fastener. American assembly.	09 - 10	CE	EN388 2 132 X	EN511 1 1 0	x 60
DCTHI	Brown-Red	Cowhide split leather with 3M Thinsulate™ lining. Canvas back with leather reinforcement. Canvas cuff.	10		EN388 3 131 X	EN511 1 2 X	
FBF15	Yellow	Cowhide full grain leather with polyester lining. Elasticated cuff on palm and lining which covers cuff edge. Clip fastener. American assembly.	08 - 10 - 11		EN388 2 132 X	EN511 2 4 0	

Developed through KZL know-how, the Delta Plus Group's historic heat-resistance glove subsidiary, 25 years ago, this glove is still as popular with users working in a high-risk environment (foundries, ...).  
The choice and the combination of the materials were made based on specific criteria combining resistance to heat, resistance to the flame, while guaranteeing optimal quality of work.

**Laetitia Guillerm**, Hand Protection Product Expert

# Exceptional thermal results, a constant quality unmatched in its field thanks to the aluminised Preox made in France.

## TERK400

### Aluminised Kevlar® Preox

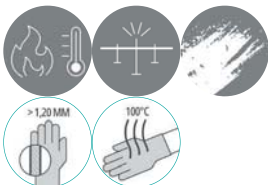
• High thermal resistance to radiant heat

### THT treated heat resistant leather

• Decreased responsiveness to flames

• Increased resistance to contact heat due to its treatment

• High flexibility of the leather



TERK400	Orange-Grey	Heat-resistant cowhide split leather palm (HR). Aluminised Kevlar Preox® back. Wool fleece lining. Kevlar® Technology sewn. American assembly. 20 cm cuff. Length: 40 cm.	10	EN388  EN407 EN12477 <b>TYPE A</b> 3244X 413444

**Delta Plus provides protection at work from head to toe for both women and men**

### TER300

The construction of the glove in superposition of layers (1)

• Protection against the effects of contact heat

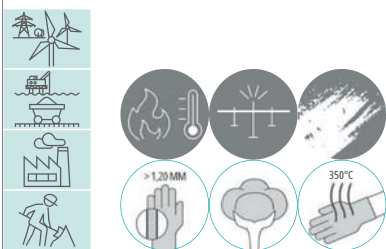
**Kevlar® thread stitching**

• Self-extinguishing

**THT treated heat resistant leather**

• Decreased responsiveness to flames

• High flexibility of the leather



### TER250

**Kevlar® thread stitching**

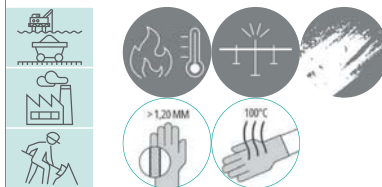
• Self-extinguishing

**THT treated heat resistant leather**

• Decreased responsiveness to flames

• Increased resistance to contact heat due to its treatment

• High flexibility of the leather



TER300	Blue-Yellow	Heat-resistant cowhide split leather palm (HR). Leather reinforcement on palm. Cotton lined hand and cuff. Kevlar® Technology sewn. American assembly. Length: 40 cm.	09 - 10	EN388  EN407
TER250	Brown-Grey	Heat-resistant cowhide split leather palm (HR). Wool fleece lining on palm. Cuff with canvas lining. Kevlar® Technology sewn. American assembly. 20 cm cuff. Length: 40 cm.	10	EN388  EN407
			CE	4144X  43314X  EN12477 TYPE A
				3243X  413X4X
				x 60



**TC716**

**Welding and heat-resistant gloves**

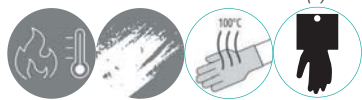
- Resistance to flame, heat and large projections of molten metal
- 15 cm heat resistant leather**
- Forearm protection

**Thick leather**

- Suitable for heavy duty tasks

Also available with header card

DPTC715 (1)



**FC115**

**Artery protection**

- Wrist protection



TC716	Grey	High quality cowhide split leather. American assembly. 15 cm cuff. Length: 35 cm.	09 - 10 - 11	CE	EN388	EN407	x 120
DPTC715		Cowhide split leather. 15 cm cuff. American assembly. Length: 35 cm.			4122X	413X4X	
FC115		High quality cowhide full grain leather palm with full index. Cowhide split leather back and cuff. American assembly. 15 cm cuff. Length: 35 cm.	10		2132X	412X4X	EN12477 TYPE B

**Delta Plus provides protection at work from head to toe for both women and men**



**GFA115K**

Lambskin leather  
• Softer and more dexterity  
Kevlar® thread stitching  
• Self-extinguishing



**TIG15K**

Welding and heat-resistant gloves  
• Resistance to flame, heat and splashes of molten metal  
Goat leather  
• Flexibility and dexterity  
• Good mechanical resistance



**CA615K**



**CA515R**



GFA115K	Grey	Lambskin full grain leather. Cowhide split leather cuff. Kevlar® Technology seams. Fourchette assembly. 15 cm cuff. Length: 35 cm.	10	CE	EN388 EN407 EN12477 <b>2111X 41XX4X</b> <b>TYPE B</b>	x 120
TIG15K	Grey	Goatskin full grain leather. Cowhide split leather cuff. Kevlar® Technology sewn. American assembly. 15 cm cuff. Length: 35 cm.	08 - 09 - 10		x 36	
CA615K	Red	High quality heat-resistant split leather (HR). Cuff with canvas lining. Kevlar® Technology sewn. American assembly. Length: 35 cm.	10	EN388 EN407 EN12477 <b>3132X 413X4X</b> <b>TYPE A</b>	x 60	
CA515R	Red	Heat-resistant cowhide split leather (HR). Hand with cotton fleece lining. Cuff with canvas lining. American assembly. Length: 35 cm.				

We have used the best materials to create this glove that offers a guaranteed protection up to 500°C in contact heat. It is the ideal glove for the foundry and steelmaking trades.

Laetitia Guillerm, Hand Protection Product Expert

## Your best ally in extreme conditions!

### TERK500 XTREM HEAT

#### Double insulation (1)

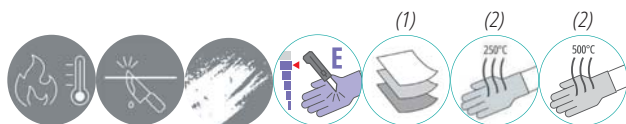
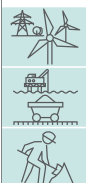
- Optimum performance for cuts and heat

#### Aramid fabric cuff 16 cm

- Forearm protection

#### The construction of the glove in superposition of layers (2)

- Protection from the effects of contact heat
- -> up to 250°C for 1 minute
- -> up to 500°C for 30 seconds



### KPG10

#### Kevlar®/ Cotton knit (1)

- Optimum performance for cuts and heat thanks to the thickness with the cotton lining

#### 100% textile

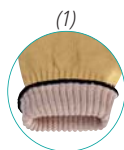
- Ambidextrous
- Washable

#### 10 cm ribbed cuff

- Better protection of the arteries

#### Knit Gauge 7

- Excellent compromise between thermal resistance and dexterity



### KCA15

#### THT treated heat resistant leather

- Decreased responsiveness to flames
- Increased resistance to contact heat due to its treatment
- High flexibility of the leather

#### Kevlar®/ Cotton knit

- Optimum performance for cuts and heat thanks to the thickness with the cotton lining

#### Knit Gauge 7

- Excellent compromise between thermal resistance and dexterity



TERK500 XTREM HEAT	Yellow	Outside aramid fabric. 100% cotton inside. 16 cm cuff. Length: 36 cm.	One size		EN388 2541E EN407 44424X
KPG10	Yellow	Kevlar® Technology outside. 100% cotton lining. Gauge 7.	09	CE	EN388 1X4XD EN407 42XXXX x36
KCA15	Yellow-Rust	Para-aramid outside. 100% cotton inside. 15 cm heat-resistant split leather cuff (THT). Gauge 7.			

Delta Plus provides protection at work from head to toe for both women and men

## CRYOG

Water repellent leather (1)

• Good splash protection

Velcro tape (2)

• Adjustable fit

Aluminised polyester (3)

• Thermal protection

Tested with liquid nitrogen using method MR019 (4)

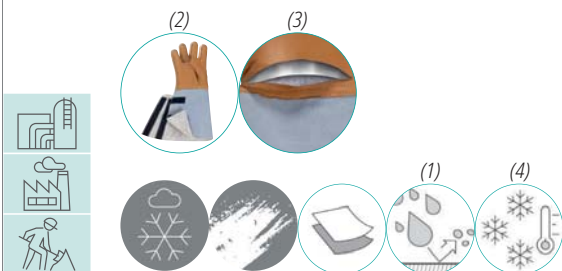
• Work in all safety up to  $-196^{\circ}\text{C}$  (a few seconds)

Superior quality

• Increased lifespan

• Comfortable to wear

• Flexibility



## VV914 ARC FLASH

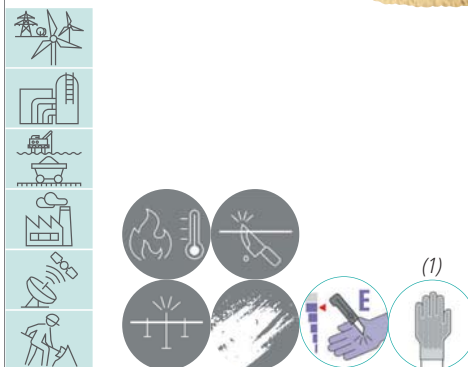
Foam neopren (1)

• Good grip in oily, dry or wet environments

• Excellent resistance to flammability

Tested according to ASTM F2975 - Test method that determines the incident energy required to cause a second-degree burn

• ATPV:  $54 \text{ cal/cm}^2$  on the palm



CRYOG	Grey-Beige	Water-repellent cowhide full grain leather. Aluminized polyester insert. Cowhide split leather cuff. Hand and cuff in synthetic. American assembly. 20 cm cuff. Length: 40 cm.	10	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>EN388</p> <p>2222X</p> </div> <div style="text-align: center;"> <p>EN511</p> <p>2 3 X</p> </div> <div style="text-align: center;"> <p>EN420 4.2</p> <p>4/4 ≥ 180 mm</p> </div> </div>	x 36
VV914 ARC FLASH	Yellow-Black	Para-aramid/Fibreglass/Modacrylic. Foam neopren coating on palm and fingertips. Gauge 10.	08 - 09 - 10 - 11	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>EN388</p> <p>3X43E</p> </div> <div style="text-align: center;"> <p>EN407</p> <p>42XXXX</p> </div> <div style="text-align: center;"> <p>ASTM-F-2675M 54 (CAL/CM<sup>2</sup>)</p> </div> </div>	x 60



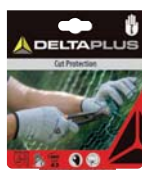
● Building and construction



**CUTTING WORKS**

DPVEUCUD09  
9 - 10 - 11

P.78



**LIGHT CUTTING WORKS**

DPVEUC34 - DPVEUCB04  
7 - 8 - 9

P.85



**AGILITY**

DPVE702PG  
6-7-8-9-10

P.87



**CONSTRUCTION**

DPVE730  
8 - 10

P.95



**TOOL HANDLING**

DPFBN49  
8-9-10-11

P.97



**WELDING**

DPTC715  
10

P.126



**LIGHT HANDLING**

DPDC103  
10

P.97

● Multi purpose



**MULTI PURPOSE WINTER WORKS**

DPV736  
7 - 8 - 9 - 10

P.119



**WINTER WORKS**

VW903  
7 - 9 - 11

P.121



**INTENSIVE WINTER WORKS**

WV913  
8 - 9 - 10 - 11

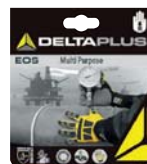
P.75



**INTENSIVE WORKS**

WV910  
8 - 9 - 10 - 11

P.74 and 75



**MULTI PURPOSE**

VW900  
8 - 9 - 10 - 11 - 12

P.92



**LIGHT WORKS**

VW901  
7 - 9

P.93



**HEAVY DUTY**

VW902  
10 - 11

P.93

● Outside works



**LITTLE GARDENER**

DPW733EVL  
8/10 years

P.94



**BALCONY AND TERRACE**

DPW733VL  
7

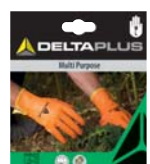
P.94



**SPECIAL HARVEST**

DPVE715  
7 - 9

P.91



**MULTI PURPOSE**

DPVE716  
7 - 9 - 10

P.91



**PLANTING**

DPVE450  
8/9 - 10/11

P.113



**ROSEBUSH**

DPW831  
7 - 8 - 9 - 10

P.95



● Second work



**GENERAL HANDLING**

DPW733JA  
7 - 8 - 9 - 10

P.94



**GENERAL HANDLING**

DPW733OR  
7 - 8 - 9 - 10

P.94



**EXTRA GRIP**

DPVE727  
7 - 8 - 9 - 10

P.98



**SECOND WORK**

DPVE724RO  
7 - 8 - 9 - 10 - 11

P.90



**WET ENVIRONMENT**

DPVE712GR  
7 - 8 - 9 - 10 - 11

P.91



**PAINTING**

DPVE702P  
6 - 7 - 8 - 9 - 10

P.87



**FINISHING OFF**

DPV1371  
7/8 - 9/10

P.117



**ANTI VIBRATIONS**

WV904  
10 - 11

P.103



**CARPENTER**

WV905  
7 - 8 - 9 - 10 - 11

P.93



**WATERPROOF**

DPCBHV2  
8 - 10

P.102



**IMPACT / WATERPROOF**

WV911  
8 / 9 / 10 / 11

P.114



**MULTI PURPOSE**

WV920 EOS FLEX  
8 - 9 - 10 - 11

P.99



**MULTI PURPOSE CUT B**

WV921 EOS FLEX CUT B  
8 - 9 - 10 - 11

P.84



**MULTI PURPOSE CUT D**

WV922 EOS FLEX CUT D  
8 - 9 - 10 - 11

P.73

● DIFFERENT QUANTITY PACKAGING FOR GLOVES



**THORN BUSH**

DPLAT50  
7/8 - 9/10

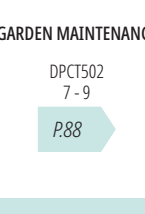
P.111



**GARDENING GLOVES**

DPVE733  
7 - 8 - 9 - 10

P.95



**GARDEN MAINTENANCE**

DPCT502  
7 - 9

P.88



VE702PGS  
6/11

P.87

VE733JAG6  
9/10

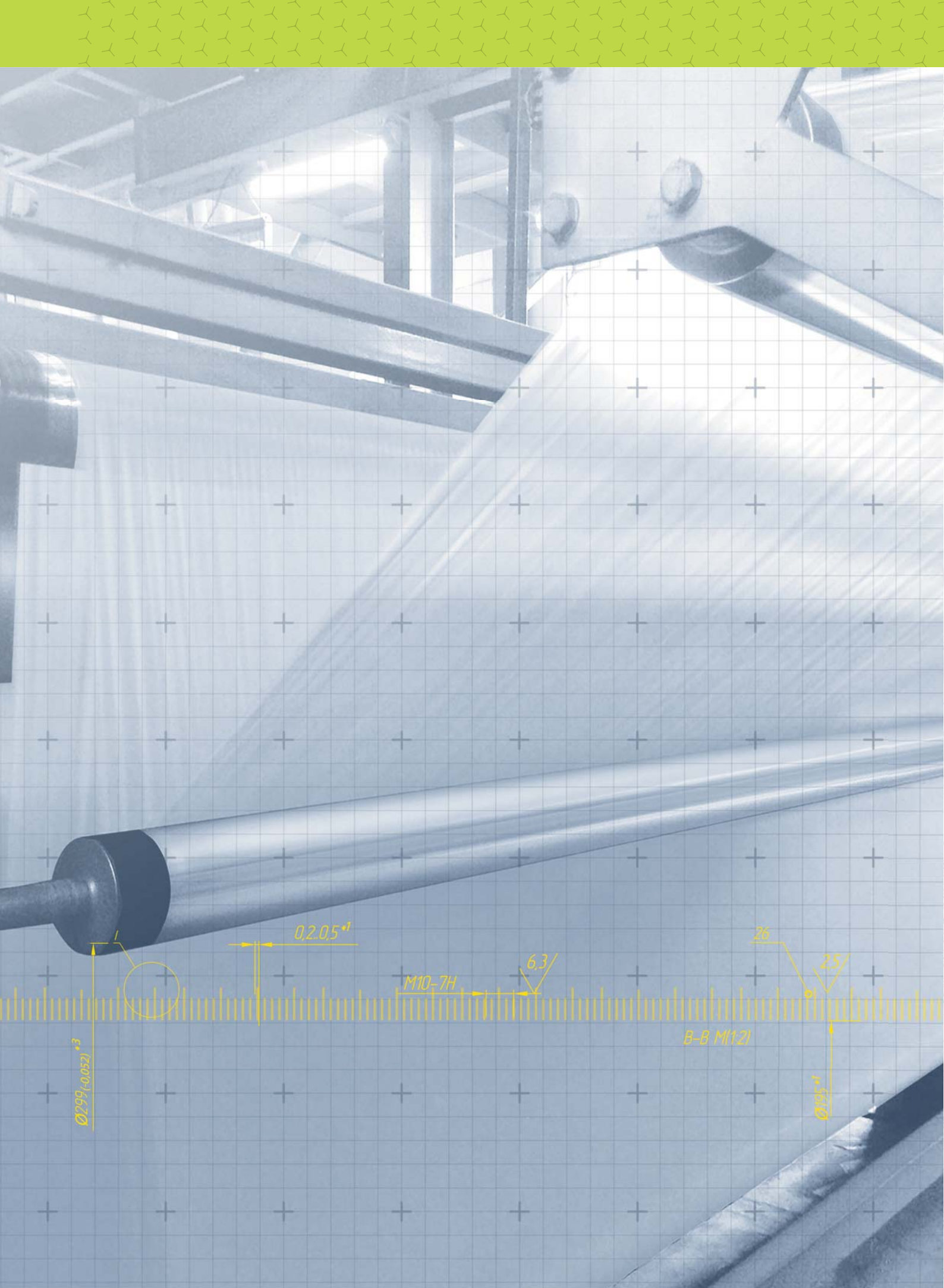
P.99

VE712GRG10  
9/10

P.91

VE702PNG12  
8/9/10/11

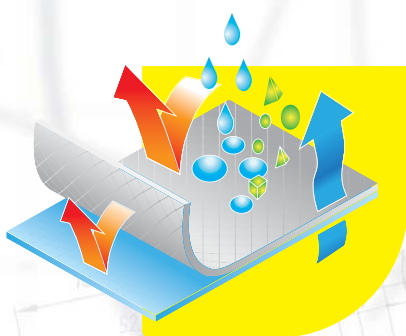
P.91



*Delta Plus provides protection at work from head to toe for both women and men*



# DISPOSABLE WEAR



HELP WITH CHOICE

134 → 137

Chemical protection overalls

138



Overalls - Coats - Aprons - Headwear  
Masks - Sleeves - Overshoes

143  
145

TECHNICAL INFORMATION

371-373





# Materials

## POLYETHYLENE (PE)

Is a flexible plastic fibre which provides good chemical resistances.

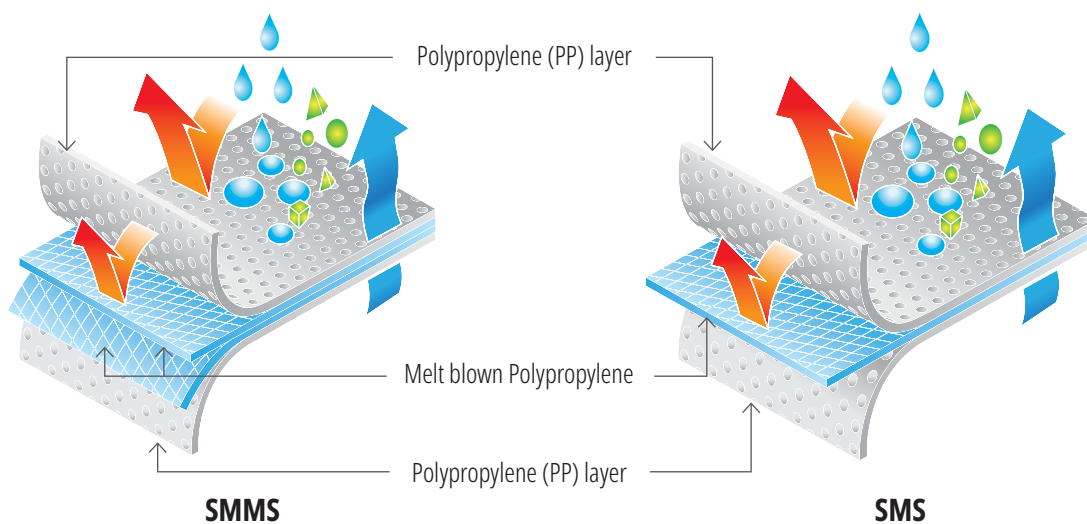
## POLYPROPYLENE (PP)

Is a nonwoven breathable fibre which provides excellent comfort.

### SMS/SMMS

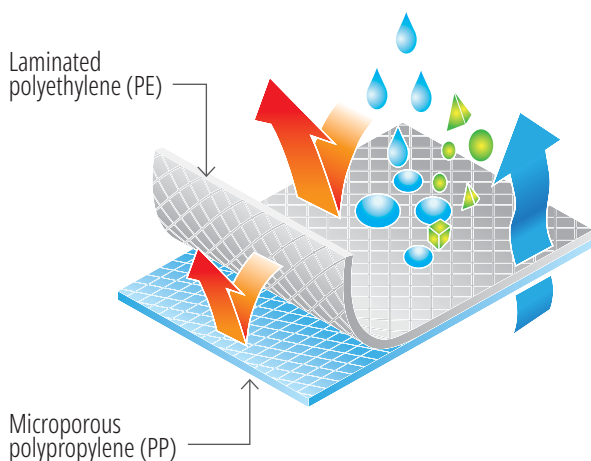
#### POLYPROPYLENE - MELT BLOWN POLYPROPYLENE - POLYPROPYLENE - DT2XX

The combination of the three polypropylene (PP) layers provides exceptional protection and provides a breathable non-woven material. The melt blown is incorporated with warm air to form a chemical barrier. The other two layers make the combination flexible and breathable.



### LAMINATED MICROPOROUS MATERIAL - DT1XX

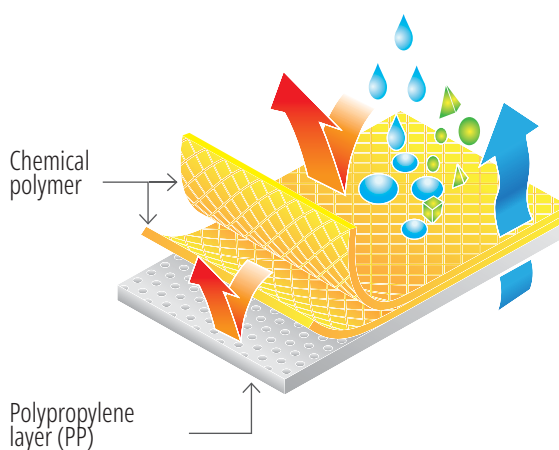
The combination of a polypropylene (PP) layer and a Polyethylene layer (PE) ensures outstanding properties and excellent protection against most chemical products and particles. The non-woven material is very resistant and lint free.



### DELTA CHEM POLYPROPYLENE

#### + CHEMICAL BARRIER - DT3XX

The combination of several high performance polymer layers (chemical barrier) combines with several polypropylene (PP) layers, which provides exceptional breathable protection. The polypropylene (PP) with the chemical barrier ensure flexible and comfort in extreme conditions.





# Performances

What performance to choose according to your needs ?

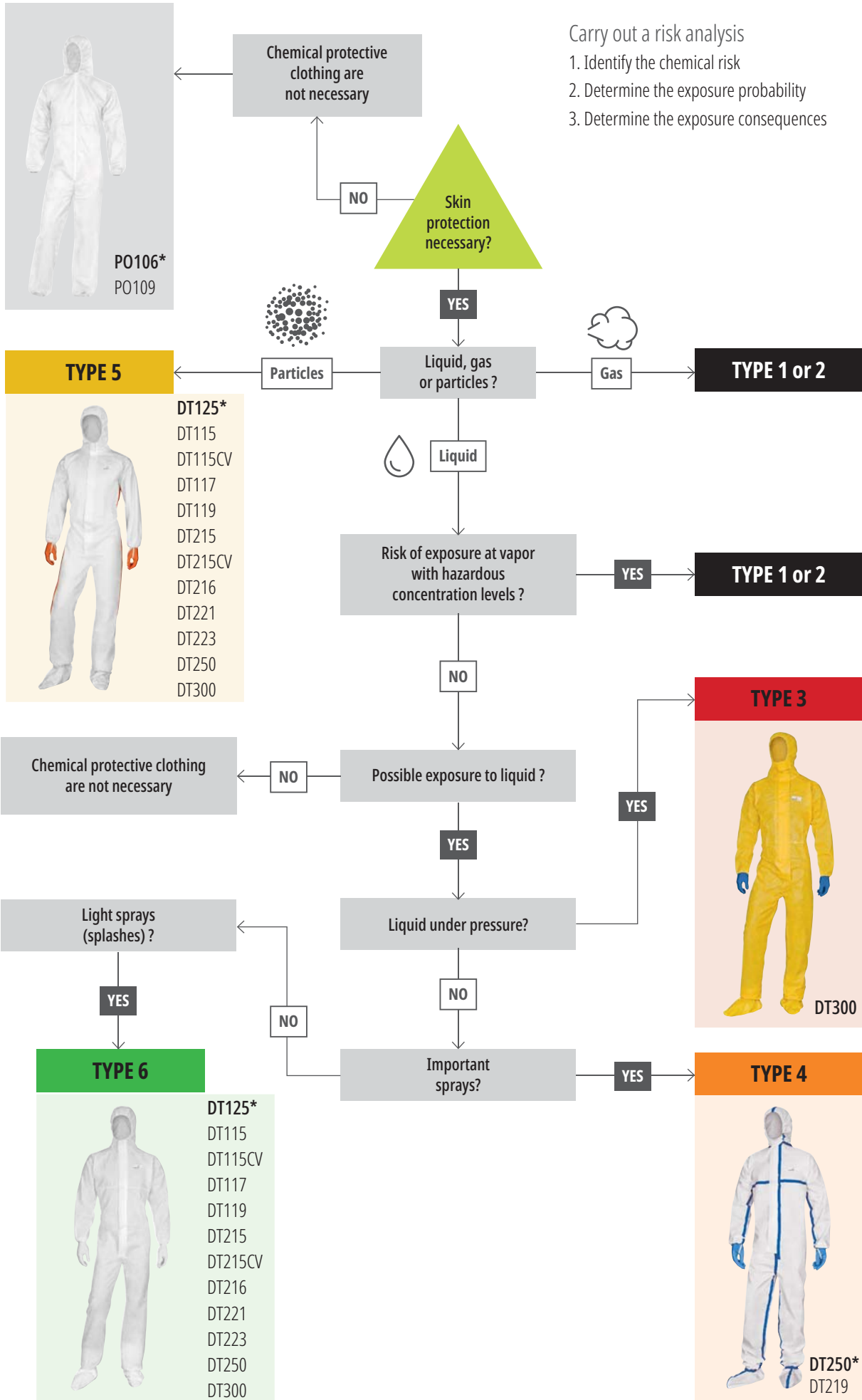
PERFORMANCES + →

RISKS + ↑	Type 3											
	Type 4											
Type 5												
Type 6												
STANDARDS												
EN13034												
EN ISO 13982-1												
EN1149-5												
EN1073-2												
EN14126												
EN14605												
EN ISO 14116												
MATERIALS	SMS	SMS	SMS	Laminated microporous	Laminated microporous	SMS Laminated microporous	DELTA TEK 6000 Protection against flame	DELTA TEK 6000	DELTA TEK 5000	DELTA TEK 5000	PE/PP	DELTA CHEM



- **TYPE 1 :** Gas-tight
- **TYPE 2 :** Not gas-tight
- **TYPE 3 :** Liquid-tight
- **TYPE 4 :** Spray-tight
- **TYPE 5 :** Dry particle-tight
- **TYPE 6 :** Against sprays (limited)

This list is not contractual. It is an indicative list and in no way incurs the liability of DELTA PLUS.



# Select your disposable chemical coverall

In which environment?

## Radioactive risk



**DT119\***  
DT117  
DT125  
DT221  
DT223  
DT250  
DT300

## Spark risk



**DT223**






## Antistatic risk








**DT300\***  
DT115  
DT115CV  
DT117  
DT119  
DT125  
DT221  
DT223  
DT250

















## Standards

-   **EN14605** TYPE 3 Protective clothing against liquid chemicals (sprays).
-  **EN14605** TYPE 4 Protective clothing against liquid chemicals (mists).
-  **EN ISO 13982-1** TYPE 5 Protective clothing for use against solid particles (dust - asbestos).
-  **EN13034** TYPE 6 Protective clothing against liquid chemicals (splashes).

-  **EN14126** TYPE 3(B) TYPE 4(B) Protective clothing against infective agents.
-  **EN1073-2** Protective clothing against radioactive contamination.
-  **EN1149-5** Protective clothing to dissipate static electricity.
-  **EN ISO 14116** Protective clothing against flame.
-  **EN ISO 27065** Protective clothing against pesticides

### EXAMPLES OF APPLICATIONS

Applications	Risks	Level of protection	Product
Work Maintenance	<i>Fouling</i>	<b>Category I / Non PPE</b>	PO106 PO109
Industrial cleaning	<i>Accidental exposure to spray of chemical substances (splashes or dry particulates)</i>	 <b>Type 6</b>  <b>Type 5</b>	DT115 DT221 DT115CV DT125 DT215 DT117 DT215CV
		 <b>Type 4</b>	DT119 DT250
Removal or encapsulation asbestos work	<i>Exposure to dust Asbestos fibers</i>	 <b>Type 5 with waterproof bands</b>	DT216
Work in environments with explosive risks	<i>Handling of products that can generate static electricity</i>	 <b>Type 6</b>  <b>Type 5</b> EN ISO 14116 EN 1149-5	DT223
Agriculture and horticulture (Handling of fertilizers...)	<i>Contact with sprayed liquids</i>	 <b>Type 4</b>	DT119 DT250
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides)	<i>Contact with weakly concentrated phytosanitary sprays</i>	 <b>Type 4</b> EN ISO 27065	DT119
Paint spraying (Solvents / Preparation / Mixing)	<i>Application of chemicals with spray gun &gt; low pressure (Type 6) &gt; high pressure (Type 4)</i>	 <b>Type 6</b>	DT125 DT117
		 <b>Type 4</b>	DT119 DT250
Industrial cleaning of dangerous products	<i>Risk of chemical splashes with continuous jet</i>	 <b>Type 3</b>	DT300
Laboratories / Chemical Industries	<i>Projection of chemical products</i>	 <b>Type 3</b>	DT300
Emergency / Rescue Personnel	<i>Bacteriological contamination</i>	 <b>Type 4-B</b>	DT119 DT250
		 <b>Type 3-B</b>	DT300



**DT300 DELTACHEM**

**DELTACHEM (1)**

• Enhanced protection against chemicals

**3-part hood (2)**

• Supports head movement for increased comfort

**Waterproof seams (3)**

• Decontamination work

**Closure with double flap (4)**

• Total water-proofing

**Double thumb loops (5)**

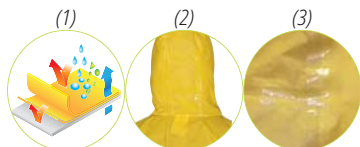
• Good hold of the glove on the hand

**Elasticated ankles (6)**

• More comfort

**DELTACHEM**

• No risk of lint



P.145  **DT301 DELTACHEM**

P.144  **DT302 DELTACHEM**

DT300 DELTACHEM	Yellow	Overall with three-sided elasticated hood. 3-B TYPE. Non woven Deltachem. Zip Fastening under double flap. Double elastic for thumb. Elasticated around the head, waist, cuffs and ankles. Single-use. Individual airtight pack.	M/L/ XL/XXL	CE	EN ISO 13982-1	EN 13034	EN 14126	EN 1073-2	EN 1149-5	x 20
					TYPE 3B TYPE 4B	TYPE 5B TYPE 6B		CLASS 1		



**DT250**

**Waterproof seams**

- Decontamination work

**Closure with chin strap (1)**

- Very good support and reinforced protection

**Double thumb loops (2)**

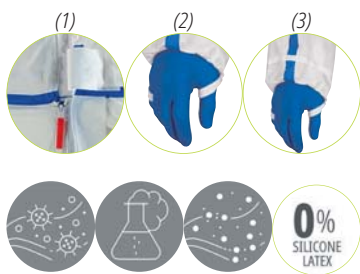
- Very good support

**Adhesive tape to connect a glove (3)**

- Total water-proofing

**PE/PP material**

- No risk of lint



**DT119**

**DELTA TEK® 5000 (1)**

- Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)

**3-part hood (2)**

- Supports head movement for increased comfort

**Closure with self-adhesive flap (3)**

- Very good seal

**Ribbed cuffs (4)**

- Good hold of the glove on the hand

**Elasticated ankles (5)**

**Microporous laminate (6)**

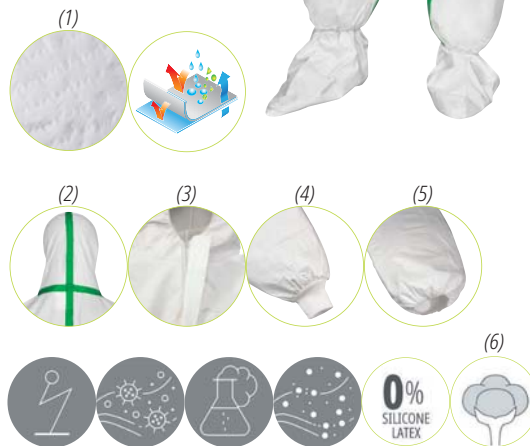
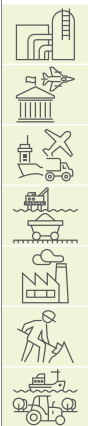
- No risk of lint

- Very soft

**Waterproof seams**

- Decontamination work

**DELTA Tek<sup>5000</sup>**



DT250	White	Overall with integrated feet with non-slip soles and elasticated hood. 4-B TYPE. PE/PP non woven. Fastening with zip under flap. Elasticated around the head, waist, cuffs and ankles. Single-use. Individual airtight pack.	M/L/ XL/ XXL/3XL	CE	EN ISO 14605	EN ISO 13982-1	EN 13034	EN 14126	EN 1073-2	x 20
DT119		Overall with elasticated hood. 4-B TYPE. Non-woven microporous laminate Deltatek 5000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Antistatic. Single-use. Individual airtight pack.	M/L/ XL/XXL		TYPE 4B	TYPE 5B	TYPE 6B	CLASS 1	EN 1149-5	



**3-part hood**

- Supports head movement for increased comfort

DT117  
DT125  
DT221  
DT223



**Closure with self-adhesive flap**

- Very good seal

DT117  
DT221



**Ribbed cuffs**

- Good hold of the glove on the hand

DT117  
DT221

**DT117**

**DELTA TEK® 5000 (1)**

- Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)



**DELTA TEK<sup>5000</sup>**

**DT125**

**DELTA TEK 5000 (1)**

- Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)

**Thumb loop (2)**

- Good support

**Crotch reinforcement (3)**

- Increased resistance to tearing

**SMS and Microporous Laminate Association (5)**

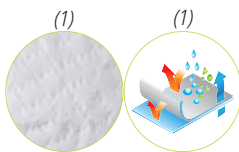
- Optimum comfort

- Cooler due to the ventilated back

**Antistatic**



**DELTA TEK<sup>5000</sup>**



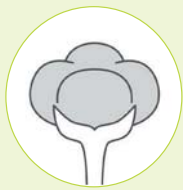
DT117	White	Overall with elasticated hood. 5-B / 6-B TYPE. Non-woven microporous laminate Deltatek 5000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Antistatic. Single-use. Individual airtight pack.	M/L/XL/XXL	EN ISO 13982-1 EN13034 EN14126  <b>TYPE 5B TYPE 6B</b> EN1073-2 EN1149-5 CE	x 20
DT125	White-orange	Non-woven overall with three-sided elasticated hood. 5/6 TYPE. Made in 2 materials: laminated microporous and SMS. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Single-use. Individual pack.	M/L/XL/XXL/3XL	EN ISO 13982-1 EN13034  <b>TYPE 5 TYPE 6</b> CLASS 1	x 50

DELTA TEK® 6000 - CHEMICAL PROTECTION OVERALLS



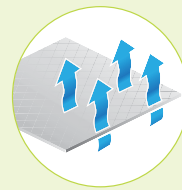
Elasticated ankles

DT117  
DT221



Microporous laminate

• No risk of lint  
• Very soft  
DT117  
DT221  
DT223



SMMS

• Breathable  
DT221  
DT223

DT221

DELTA TEK® 6000 (1)

- 100% polypropylene SMMS\*
- \*\*Polypropylene, Melt blown polypropylene, Polypropylene
- The SMMS\* process provides better product breathability

DELTA TEK<sup>6000</sup>



DT223

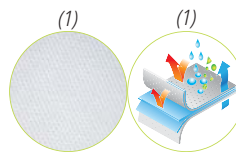
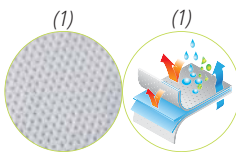
DELTA TEK® 6000 (1)

- 100% polypropylene SMMS\*
- \*Polypropylene, Melt blown polypropylene, Polypropylene
- The SMMS\* process provides better product breathability

Tested according to standard EN ISO14116

- Protection against flames

DELTA TEK<sup>6000</sup>

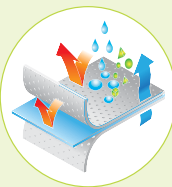
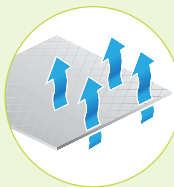


DT221	White	Overall with elasticated hood. 5/6 TYPE. SMMS non-woven DELTA TEK 6000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated round head, waist and ankles. Knitted wrist. Antistatic. Single-use. Individual airtight pack.	M/L/XL/XXL	CE	EN ISO 13982-1	EN13034	EN1073-2	EN1149-5	x 20
DT223		Overall with three-sided elasticated hood. 5/6 TYPE. Non-woven SMMS DELTA TEK 6000. Flame retardant material. Fastening with zip under flap. Elasticated around the head, waist, cuffs and ankles. Single-use. Individual airtight pack.	M/L/XL/XXL/3XL						



**3-part hood**  
• Supports head movement for increased comfort

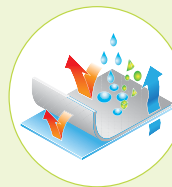
DT215  
DT216  
DT115



**ESSENTIAL version SMS**

• Breathable  
• Comfortable

DT215  
DT215CV  
DT216



**ESSENTIAL version Microporous laminate**

• Less risk of lint

DT115  
DT115CV

**DT215**



**DT215CV**

Tested with the hood DT215CA  
Available on demand (1)  
• For a complete protection of the body



**DT216**



**DT115**

**Antistatic**

• Reduces the risk of electrostatic discharge



**DT115CV**

Tested with the hood DT115CA  
Available on demand (1)  
• For a complete protection of the body



DT215	White	Overall with elasticated hood. 5/6 TYPE. Non woven 100% SMS. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Single-use. Individual pack.	M/L/XL/XXL	 EN ISO 13982-1 EN13034 <b>TYPE 5</b> <b>TYPE 6</b>	x 50
DT215CV		Overall with collar. 5/6 TYPE. Non woven 100% SMS. Fastening with zip under flap. Elasticated round waist, cuffs and ankles. Single-use. Individual pack.	M/L/XL/XXL/3XL		
DT216	White-Yellow	Overall with elasticated hood. 5/6 TYPE. Non woven 100% SMS. Sealed seams. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Single-use. Individual pack.	M/L/XL/XXL/3XL		
DT115	White	Overall with elasticated hood. 5/6 TYPE. Non-woven microporous laminate. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Single-use. Individual pack.	M/L/XL/XXL		
DT115CV		Overall with collar. 5/6 TYPE. Non-woven microporous laminate. Fastening with zip under flap. Elasticated round waist, cuffs and ankles. Single-use. Individual pack.	M/L/XL/XXL/3XL		



P0106



P0109



BLOUSPE



BLOUSPO

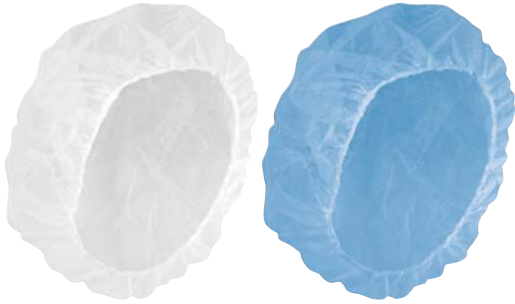


TABPO02



P0106	White	Overall with elasticated hood. Non-woven polypropylene 30 g/m <sup>2</sup> . Zip fastening. Elasticated waist, ankles and cuffs. Suitable for food industry. Single-use. Individual pack.	M/L/XL/XXL	 CE x 50
P0109	Blue	Overall with elasticated hood. Non-woven polypropylene 30 g/m <sup>2</sup> . Zip fastening. Elasticated cuffs. Single-use. Individual pack.	L/XL/XXL	 x 50
BLOUSPE		Coat for visitors. Polyethylene 18 µm. Fastening with 3 press studs. Shirt collar. Raglan sleeves. Dispenser box of 100 pieces.	One size	x 5
BLOUSPO	White	Coat. Non-woven polypropylene 30 g/m <sup>2</sup> . Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.	M/L/XL/XXL	 x 50
TABPO02		Apron. Polyethylene 20 µm. Dimensions: 120 x 70 cm. Bag of 100 pieces.	One size	x 10

**PO110 - PO110BL**



White Blue	Round mobcap. Non-woven polypropylene 10 g/m <sup>2</sup> . Elasticated border. 53 cm in diameter. Dispenser box of 100 pieces.	One size	x 10
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**PO115**



White	Chin/beard protector. Non-woven polypropylene 10 g/m <sup>2</sup> . Elasticated for a good fit. Dispenser box of 100 pieces.	One size	x 10
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**TOQUE**



White	Adjustable pleated hat. Extra-white crepe paper, 80 g/m <sup>2</sup> . Height: 25 cm. Bag of 10 pieces.	One size	x 25
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**MANCHBL**



White	Sleeve. Polyethylene 21 µm. Suitable for food industry. Elasticated on both ends. Dimensions: 40 x 20 cm. Bag of 100 pieces.	One size	 x 20
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**MANCHBE**



Blue	Sleeve. Polyethylene 21 µm. Suitable for food industry. Elasticated on both ends. Dimensions: 40 x 20 cm. Bag of 100 pieces.	One size	 x 20
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**DT302 DELTACHEM**



Yellow	Sleeve. PB [3-B] TYPE. Non-woven DELTACHEM. Elasticated on both ends. Sealed seams. Single-use. Bag of 1 pair.	One size	    x 50
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**DT301 DELTACHEM**



**DT111**



Yellow	Overboots. PB [3-B] TYPE. Non-woven DELTACHEM. Non-slip sole. Elastic on top and tightening link. Sealed seams. Single-use. Bag of 1 pair.	One size	CE	EN14126 EN14605 TYPE PB3-B TYPE PB4-B	x 50	White	Overboots. Non-woven microporous laminate Deltatek 5000. Elastic and tie on top. Bag of 10 pairs.	One size	x 5
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**SURCHPLUS**



**SURCHPE**

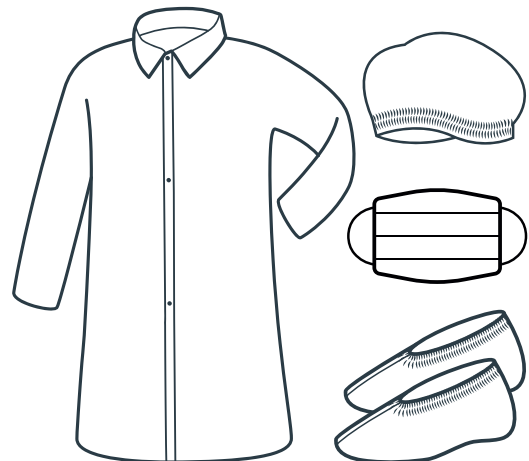


Blue-White	Overshoes. Non-woven polypropylene, 8,8 g/m <sup>2</sup> . Polyethylene 120 µm. Waterproof plasticized sole. Elasticated ankle. Bag of 50 pairs.	One size	x 5	Blue	Visitor overshoes. Polyethylene 25 µm. Elasticated ankle. Bag of 50 pairs.	One size	x 20
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**SURCHPO**



**KITVI**



White	Overshoes. Non-woven polypropylene 40 g/m <sup>2</sup> . Elasticated ankle. Dimensions: 35 x 17 cm. Bag of 50 pairs.	One size	x 10		Kit for visitor: 1 polyethylene overall Ref. BLOUSPE). 1 accordion pleating mobcap (Ref. PO111). 1 two-pleats polypropylene mask. 1 polyethylene pair of overshoes (Ref. SURCHPE). Box of 100 kits.	One size	x 4
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*Delta Plus provides protection at work from head to toe for both women and men*



# WORK WEAR

HELP WITH CHOICE

148-149



MACH ORIGINALS

151



MACH 5

153

MACH CORPORATE

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MACH 2

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PANOSTYLE

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MACH SPRING

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Polos - T-shirts -  
Underwear

172



Caps - Belts -  
Kneepads

174



**TECHNICAL INFORMATION**

371-376



## Sizes

Order the right size by taking the correct measurements

To take the correct measurements, take the measurements directly on the body, without tightening.

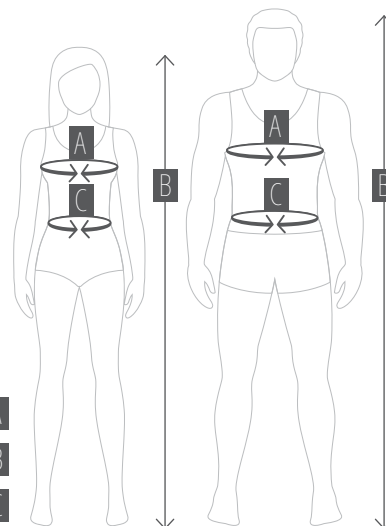
I.E.:

- the measurements outlined in the tables are for the **body**, not the garment.
- for wearing a garment over another, **the width required is provided.**

Chest measurement **A**

Height **B**

Waist measurement **C**



## Choose your product according to your working environment

RANGES		(in g/m <sup>2</sup> )			TROUSERS
<b>Mach Originals</b> C €	Canvas 97% cotton 3% elastane. Yokes : Cordura®	290		S → 3XL	<b>MOPA2</b> EN ISO 13688 / EN14404
<b>Mach5</b> C €	Canvas 60% cotton 40% polyester. Yokes: Cordura® and Oxford polyester.	270		S → 3XL	<b>M5PA2</b> EN ISO 13688 / EN14404
<b>Mach Corporate</b> C €	Canvas 65% polyester 35% cotton Ripstop.	260 MCCO2 245 MCCDZ - MCCOM		S → 3XL	<b>MCPA2</b> EN ISO 13688 / EN14404
	Canvas 64% polyester 34% cotton 2% elastane Ripstop	275		S → 3XL	<b>MCPA2STR</b> EN ISO 13688 / EN14404
<b>Mach2</b> C €	Twill 65% polyester 35% cotton.	245		S → 3XL (5XL For )	<b>M2PA3</b> EN ISO 13688 / EN14404
	Twill 63% polyester 34% cotton 3% elastane.	260		S → 3XL (5XL For )	<b>M2PA3STR</b> EN ISO 13688 / EN14404
<b>Mach2</b> C € <b>Female Version</b>	Twill 65% polyester 35% cotton.	245		XS → 3XL	<b>M2PA3F</b> EN ISO 13688 / EN14404
	Twill 63% polyester 34% cotton 3% elastane.	260		XS → 3XL	<b>M2PA3STRF</b> EN ISO 13688 / EN14404
<b>Panostyle</b> C €	Twill 65% polyester 35% cotton.	235		XS → 3XL (For M6SAL, M6PAN)	<b>M6PAN</b> EN ISO 13688 / EN14404
	Twill 63% polyester 34% cotton 3% elastane.	240		XS → 3XL	<b>PANOSTRPA</b> EN ISO 13688
<b>Mach Spring</b> C €	Twill 65% polyester 35% cotton.	245		S → 3XL	<b>M5SPA</b> EN ISO 13688 / EN14404
	Twill 100% cotton.	195		S → 3XL	<b>MSLPA</b> EN ISO 13688 / EN14404
<b>Palaos</b> C €	Twill 100% cotton.	200		S → 3XL	<b>PALIGPA</b> EN ISO 13688

Tshirt/Polos

AGRA



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BALI



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GENOA



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LAZIO



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ROMA



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NAPOLI



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TURINO



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# Size equivalence table

		XS	S	M	L	XL	XXL	3XL	4XL	5XL
MALE		XS	S	M	L	XL	XXL	3XL	4XL	5XL
FEMALE		S	M	L	XL	XXL				
MALE	B	XS 156/164	S 156/164	M 164/172	L 172/180	XL 180/188	XXL 188/196	3XL 196/204	4XL 196-204	5XL 196-204
JACKET / BOMBER / BODYWARMER / OVERAL	EU	42/44	44/46	48/50	52/54	56/58	60/62	64/66	68/70	72/74
	IT	36/38	38/40	42/44	46/48	50/52	54/56	58/60	62/64	66/68
	DE	46/48	48/50	52/54	56/58	60/62	64/66	68/70	72/74	76/78
Chest measurement <b>A</b>	cm	78/86	86/94	94/102	102/110	110/118	118/129	129/141	141-153	153-165
	inch	32 <sup>1/2</sup> /34	34/37	37/40	40/43	43/46 <sup>1/2</sup>	46 <sup>1/2</sup> /50 <sup>1/2</sup>	50 <sup>1/2</sup> /55 <sup>1/2</sup>	55 <sup>1/2</sup> /60	60/64
TROUSERS / DUNGAREES / BERMUDA	EU	32/34	34/36	38/40	42/44	46/48	50/52	54/56	58/60	62/64
	IT/DE	36/38	38/40	42/44	46/48	50/52	54/56	58/60	62/64	66/70
	cm	58/66	66/74	74/82	82/90	90/98	98/106	106/117	117/128	128/141
Waist measurement <b>C</b>	inch	23/26	26/29	29/32	32/35 <sup>1/2</sup>	35 <sup>1/2</sup> /38 <sup>1/2</sup>	38 <sup>1/2</sup> /41 <sup>1/2</sup>	41 <sup>1/2</sup> /46	46/50	50/55
	TEE-SHIRT <b>A</b>	cm	76/79	80/88	89/97	98/106	107/115	116/124	125/133	-

JACKET	BERMUDAS	JACKET	DUNGAREES	OVERALL	PAGE
		MOGI2 EN ISO 13688 			150
M5VE2 EN ISO 13688 	M5BE2 EN ISO 13688 	M5GI2 EN ISO 13688 	M5SA2 EN ISO 13688 / EN14404 	M5CO2 EN ISO 13688 / EN14404 	152
MCVE2 EN ISO 13688 			MCSA2 EN ISO 13688 / EN14404 	MCCO2 EN ISO 13688 / EN14404 MCCDZ EN ISO 13688 MCCCOM EN ISO 13688 / EN14404 	156
					157
M2VE3 EN ISO 13688 	M2BE3 EN ISO 13688 	M2GI3 EN ISO 13688 	M2SA3 EN ISO 13688 / EN14404 	M2CO3 EN ISO 13688 / EN14404 M2CZ3 EN ISO 13688 	160
	M2BE3STR EN ISO 13688 		M2SA3STR EN ISO 13688 / EN14404 		160
					165
					165
M6VES EN ISO 13688 	M6BER EN ISO 13688 	M6GIL EN ISO 13688 	M6SAL EN ISO 13688 / EN14404 	M6COM EN ISO 13688 / EN14404 	166
					166
		M5SGI EN ISO 13688 			170
					170
PALIGVE EN ISO 13688 					171



## Accessories

MAPOC



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ATOLL



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CEINT04



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M2GEN



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REEF



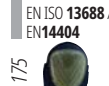
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VERONA



P. 174

ZIMA



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BADGE



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**MACH/O**

by DELTAPLUS

**CORDURA**  
FABRIC**RESISTANT | ADJUSTABLE | FREEDOM OF MOVEMENT**

Products associated with the range

**MILTON2**

S → 3XL

CE

P.180

**OTAKE**

S → 3XL

EN343



CE

3

3

P.210

**NAGOYA**

S → 3XL

CE

P.205

**FIDJ12**

S → 3XL

CE

P.196

**TURINO**

S → 3XL

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**GENOA**

S → 3XL

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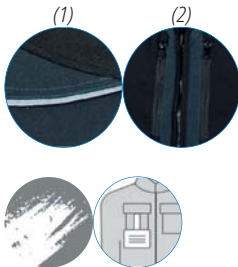
**MAPOC**

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## MOGI2

- Decorative retro-reflective piping on the front and back (1)
- Mesh insert on the back for ventilation
  - Increased breathability for better evacuation of perspiration
- Covered zips (2)
- Large pocket on the back
  - The necessary tools always at hand



## MOPA2

- Fleece lined kidney protector (1)
  - Perfect protection of the lower back against the cold
  - Increased comfort
- Decorative retro-reflective piping on the front and back (2)
- Easy adjustment of leg length by pressure (3 lengths possible) (3)
- Crotch reinforcement (4)
  - Increased lifespan
- Triple seams
  - Increased lifespan



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**REEF**



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**MAPOC**



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**M2GEN**



MOGI2		Vest. Bias finishing. 10 pockets including 2 inner.					
MOPA2	Navy blue Grey	Trousers. Inside adjustable waist with elastic and buttons. 12 pockets.	Canvas 97% cotton 3% elastane 290 g/m <sup>2</sup> . Yokes : 100% polyamide.	S/M/ L/XL/ XXL/3XL	CE	EN14404 	x 10
						<b>TYPE 2 LEVEL 1</b>	

**MACH 5**  
by DELTAPLUS  
**CORDURA**  
FABRIC



**RESISTANT | ROBUST | COMFORTABLE**

Products associated with the range



**MILTON2**

S → 3XL

CE

P.180



**OTAKE**

S → 3XL

EN343

CE

3  
3

P.210



**KOPER**

S → 3XL

CE

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**NAGOYA**

S → 3XL

CE

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**FIDJI2**

S → 3XL

CE

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**TURINO**

S → 3XL

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**GENOA**

S → 3XL

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We have developed the MACH 5 range to meet the needs of demanding customers and to enable intensive use of the product. That's why we chose a heavy cotton majority fabric to lend comfort and durability. The **Cordura®**, highly resistant to abrasion, is positioned on areas of high wear such as knees and forearms for maximum durability.

**Laurent Kostrzewa**, Body Protection Product Expert

# The MACH 5 range is highly resistant thanks to its triple seams and Cordura® reinforcements.

## M5PA2

Retro-reflective piping (front and back) (1)

Reinforcement

▸ Increased lifespan

Triple seams (2)

▸ Increased lifespan

Tool holder pocket (3)

▸ The necessary tools always at hand

Covered zips (4)



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**ATOLL**



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**MAPOC**



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**M2GEN**

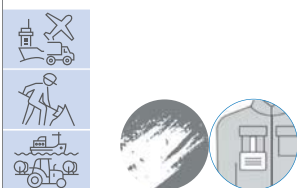
M5PA2	Beige-Black Grey-Black	Trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m <sup>2</sup> . Yokes: polyamide and Oxford polyester.	S/M/ L/XL/ XXL/3XL	CE EN14404 TYPE 2 LEVEL 1 x 10



**M5VE2**

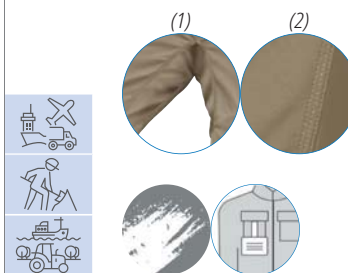


**M5GI2**



**M5BE2**

**Reinforcement (1)**  
• Increased lifespan  
**Triple seams (2)**  
• Increased lifespan



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**ATOLL**



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**MAPOC**



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**M2GEN**



M5VE2	Beige-Black Grey-Black	Jacket. Fastening with zip under velcro storm flap. Elasticated waist on both sides. Underarm ventilation eyelets. 9 pockets including 2 inner.	Canvas 60% cotton 40% polyester 270 g/m <sup>2</sup> . Yokes: polyamide and Oxford polyester.	S/M/L/XL/ XXL/3XL	CE	x 10
M5GI2		Vest. Zip fastening under bias. Elasticated waist on both sides. 9 pockets including 2 inner.	Canvas 60% cotton 40% polyester 270 g/m <sup>2</sup> . Yokes: Oxford polyester.			
M5BE2	Beige Black	Bermuda. Elasticated waist on both sides. 8 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m <sup>2</sup> .			

**Delta Plus provides protection at work from head to toe for both women and men**





**Retro-reflective piping**  
(front and back)  
M5VE2 - M5PA2 - M5CO2 -  
M5SA2 - M5GI2



**Cordura® reinforcement**  
• Increased lifespan  
• Very good resistance to abrasion  
M5VE2 - M5PA2 - M5CO2 - M5SA2 -



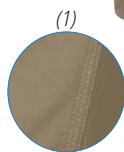
**Tool holder pocket**  
• The necessary tools always at  
hand  
M5PA2 - M5CO2 - M5SA2 - M5BE2



**Covered zips**  
M5VE2 - M5PA2 - M5CO2 -  
M5SA2 - M5GI2 - M5BE2

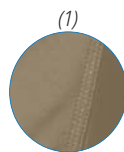
## M5CO2

**Triple seams (1)**  
• Increased lifespan  
M5CO2 - M5PA2 - M5BE2



## M5SA2

**Triple seams (1)**  
• Increased lifespan



M5CO2	Beige-Black Grey-Black	Overalls. Fastening zip under storm flap with Velcro strap (top and bottom opening). Elasticated waist. Underarm ventilation eyelets. Preformed knees. 11 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m <sup>2</sup> . Yokes: polyamide and Oxford polyester.	S/M/L/XL/ XXL/3XL	CE	EN14404 TYPE 2 LEVEL 1
M5SA2		Dungarees. Fastening zip under flap (top and bottom opening). Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. 10 pockets including 1 ruler.				x 10

**MACH/C**  
by DELTAPLUS**LIFESPAN | MODERN | FUNCTIONAL**

Products associated with the range

**MOOVE**  
S → 3XL  
P.190**HORTEN2**  
S → 3XL  
CE  
P.202**GDOON**  
S → 3XL  
P.198**MARMOT**  
S → 3XL  
P.205**TURINO**  
S → 3XL  
P.173**MAPOC**  
P.175

We took inspiration from current trends to develop the new **Mach Corporate** range.  
Ripstop fabric improves tear strength and significantly increases the life of the product.  
The many functional pockets are a real advantage to always have the necessary tools at hand.  
The 3 colours available and the decline of design on winter products make the **Mach Corporate** a usable range throughout the year.

**Laurent Kostrzewa**, Body Protection Product Expert

# The new Mach Corporate range meets the expectations of today's demanding professionals thanks to its many pockets and the Ripstop fabric used.

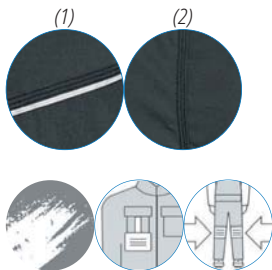
The use of the 260 g/m<sup>2</sup> Ripstop polyester/ cotton fabric guarantees the user a very high level of tear resistance while remaining comfortable and relatively light. A modern cut. A current design.

## MCPA2

Retro-reflective piping (front and back) (1)

Triple seams (2)

► Increased lifespan

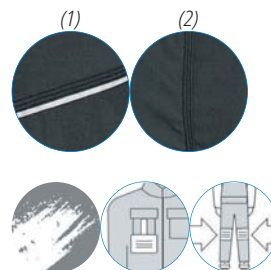


## MCPA2STR

Retro-reflective piping (front and back) (1)

Triple seams (2)

► Increased lifespan



MCPA2	Grey-Black Light grey-Dark grey Navy blue-Black	Trousers. Elasticated waist on both sides. Preformed knees. Reinforced crotch. 13 pockets including 1 ruler.	Canvas 65% polyester 35% cotton Ripstop 260 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	CE	EN14404  TYPE 2 LEVEL 1	x 10
MCPA2STR	Grey-Black Navy blue-Black	Trousers. Adjusted cut. Elasticated waist on both sides. Preformed knees. 13 pockets including 1 ruler.	Canvas 64% polyester 34% cotton 2% elastane Ripstop 275 g/m <sup>2</sup> .			EN14404 TYPE 1 LEVEL 0	



Retro-reflective piping  
(front and back)

MCSA2  
MCCO2  
MCVE2



Triple seams

► Increased lifespan

MCSA2  
MCCO2  
MCPA2

**MCVE2**



**MCSA2**



**MCCO2**



MCVE2	Grey-Black Light grey-Dark grey Navy blue-Black	Jacket. Fastening with zip under velcro storm flap. Elasticated cuffs adjustable with Velcro. 9 pockets including 1 zipped.	Canvas 65% polyester 35% cotton Ripstop 260 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	CE	EN14404	x 10
MCSA2		Dungarees. Adjustable elasticated braces. 9 pockets including 1 ruler.					
MCCO2	Grey-Black	Overalls. Elasticated waist at the back. 11 pockets including 1 ruler.					

**Delta Plus provides protection at work from head to toe for both women and men**



## MCCOM

Hand pocket (1) MCCOM

Tool holder pocket (2) MCCOM - MCCDZ

► The necessary tools always at hand

Opening for audio grommets (3) MCCOM

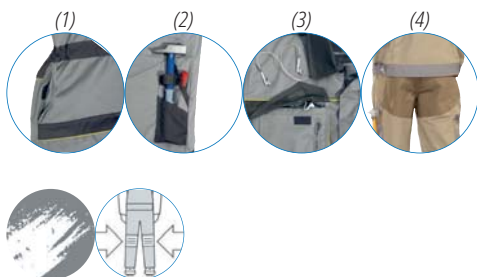
Buttock reinforcement (4) MCCOM

► Increased lifespan

Eyelets under arms

Gusset at the back MCCOM - MCCDZ

► Increased breathability for better evacuation of perspiration



## MCCDZ

Adjustable waist by Velcro strap

Hand pocket (1)

Preformed and reinforced elbows (2)






Zip on the bias for ergonomics (3)



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**M2GEN**

						
MCCOM	Beige-Grey	Overalls. Elasticated waist at the back. 8 pockets including 1 ruler. 2 Hand slits.				
MCCDZ	Navy blue-Black Beige-Grey Light grey-Dark grey	Overalls with 2 zips. Adjustable elasticated waist at the back, through velcro band at the front Adjustable bottom of legs with velcro band. 7 pockets. 2 Hand slits.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	CE	x 10

**MACH/2**  
by DELTAPLUS**LIFSPAN | GUARANTEE | COMFORTABLE**

Products associated with the range

**CARSON2**S → 3XL  
EN343  
 CE  
3  
1\*  
X P.184**SLIGO**S → 3XL  
EN343  
 CE  
3  
1\* P.211**NORTHWOOD3**S → 3XL  
EN343  
 CE  
3  
1\*  
X P.193**DOON**S → 3XL  
P.191**STOCKTON3**S → 3XL  
CE  
P.197**LULEA2**S → 3XL  
P.203**MYSEN2**S → 3XL  
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### M2PA3

- Triple seams (1)
- Increased lifespan
- Crotch yoke
- More ease



### M2PA3STR

- Triple seams (1)
- Increased lifespan



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**M2PA3F**

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**M2PA3STRF**

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**M2GEN**

M2PA3	Grey-Orange Beige Grey-Yellow Navy blue-Royal blue Dark grey	Trousers. Regular cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL/4XL/5XL	CE	EN14404 TYPE 2 LEVEL 0
M2PA3STR	Grey-Orange Grey-Red Navy blue-Orange	Trousers. Adjusted cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler.	Twill 63% polyester 34% cotton 3% elastane 260 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL/4XL/5XL		EN14404  TYPE 2 LEVEL 1

x 10



**M2VE3**

Hand pockets (1)  
Inner pocket (2)  
• The necessary tools always at hand



**M2GI3**



**M2BE3**

Crotch yoke  
• More ease  
Triple seams (1)  
• Increased lifespan



**M2BE3STR**

Triple seams (1)  
• Increased lifespan



M2VE3	Grey-Orange Beige Navy blue-Royal blue Dark grey	Jacket. Elasticated cuffs. Elasticated waist on both sides. 7 pockets including 1 inside.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL/4XL/5XL	CE x 10
M2GI3	Grey-Orange Navy blue-Royal blue Dark grey	Multipocket vest. Bias finishing. 11 pockets.		S/M/L/XL/ XXL/3XL	
M2BE3	Grey-Orange Navy blue-Royal blue Grey-Yellow Dark grey	Bermuda. Regular cut. Elasticated waist on both sides. 7 pockets including 1 ruler.	S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL/4XL/5XL		
M2BE3STR	Grey-Orange	Bermuda. Elasticated waist on both sides. 7 pockets including 1 ruler.	Twill 63% polyester 34% cotton 3% elastane 260 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL	



### M2SA3

Crotch yoke

• More ease

Triple seams (1)

• Increased lifespan



### M2SA3STR

Triple seams (1)

• Increased lifespan



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**REEF**



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**MAPOC**



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**M2GEN**



M2SA3	Grey-Orange Grey-Yellow Navy blue-Royal blue Dark grey	Dungarees. Regular cut. Adjustable elasticated braces. Preformed knees. 10 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL/4XL/5XL	EN14404 <b>TYPE 2 LEVEL 0</b>	
M2SA3STR	Grey-Orange	Dungarees. Adjusted cut. Adjustable elasticated braces. Preformed knees. 10 pockets including 1 ruler.	Twill 63% polyester 34% cotton 3% elastane 260 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL	CE EN14404  <b>TYPE 2 LEVEL 1</b>	x 10

**M2C03**

Triple seams

► Increased lifespan (1)



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**M2CZ3**

Triple seams

► Increased lifespan (1)



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M2C03	Grey-Orange Navy blue-Royal blue Dark grey	Overalls. Regular cut. Zip fastening under bias. Elasticated waist at the back. Elasticated cuffs. Preformed knees. 9 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL S/M/L/XL/XXL/3XL/4XL/5XL	EN14404 TYPE 2 LEVEL 0  x 10
M2CZ3	Grey-Orange Navy blue-Royal blue	Overalls with 2 zips. Regular cut. Elasticated waist at the back. Elasticated cuffs. 9 pockets including 1 ruler.		S/M/L/XL/XXL/3XL	

### M2PA3F

Crotch yoke

• More ease

Triple seams

• Increased lifespan (1)



P.161



**M2PA3**

### M2PA3STRF

Triple seams

• Increased lifespan (1)



P.161



**M2PA3STR**



M2PA3F	Dark grey	Woman's trousers. Regular cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .			EN14404 TYPE 2 LEVEL 0	
M2PA3STRF	Grey-Orange	Woman's trousers. Adjusted cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler.	Twill 63% polyester 34% cotton 3% elastane 260 g/m <sup>2</sup> .	XS/S/M/L/XL/ XXL/3XL	CE	EN14404 TYPE 2 LEVEL 1	x 10

# PANOSTYLE

## LIGHT | UNIVERSAL

Products associated with the range



### DARWIN3

XS → 3XL

EN343



3  
1\*  
X  
P.188



### RENO

S → 3XL

P.194



### LITE

S → 3XL

P.210



### SIERRA2

S → 3XL



P.199



### BEAVER

S → 3XL

P.205



### BALI

M → 3XL

P.172



**M6PAN**








**PANOSTRPA**



The use of 240 g/m<sup>2</sup> polyester/cotton/elastane stretch fabric guarantees the best price/value ratio for this range without compromising the quality and durability of the product.



						
M6PAN	White-Grey Navy blue-Orange Grey-Orange Grey-Green Brown-Green	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.	Twill 65% polyester 35% cotton 235 g/m <sup>2</sup> .	XS/S/M/L/ XL/XXL/3XL	CE	EN14404 TYPE 2 LEVEL 0  x 10
PANOSTRPA	Navy blue-Orange Grey-Black	Trousers. Elasticated waist at the back. 5 pockets including 1 ruler.	Twill 63% polyester 34% cotton 3% elastane 240 g/m <sup>2</sup> .			

**M6VES**

Badge holder location sold separately (1)



**M6GIL**



**M6BER**



**ATOLL**

P.174



**BADGE**

P.174



**M2GEN**

P.175



M6VES	Navy blue-Orange Brown-Green Grey-Green	Jacket. Front zip fastening with bias finishing. Elasticated cuffs. 4 pockets.	Twill 65% polyester 35% cotton 235 g/m <sup>2</sup> .	XS/S/M/L/ XL/XXL/3XL	CE x 10
M6GIL	Grey-Orange	Multipocket vest. Front zip fastening with bias finishing. Bias finishing. 6 pockets.			
M6BER	Navy blue-Orange Grey-Green	Bermuda. Elasticated waist on both sides. 5 pockets.			

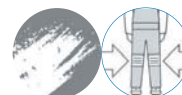
**M6COM**

Badge holder location sold separately (1)



**M6SAL**

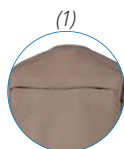
Button closure on the waist (1)



M6COM	Navy blue-Orange Brown-Green Grey-Green Grey-Orange	Overalls. Front zip fastening with bias finishing. Elasticated waist. Elasticated cuffs. 7 pockets.				
M6SAL	Navy blue-Orange Brown-Green Grey-Green Grey-Orange White-Grey	Dungarees. Elasticated waist on both sides. Adjustable elasticated braces. 6 pockets.	Twill 65% polyester 35% cotton 235 g/m <sup>2</sup> .	XS/S/M/L/ XL/XXL/3XL	CE	EN14404 TYPE 2 LEVEL 0
						x 10

**M5SGI**

Dorsal ventilation flap (1)

**M5SPA**

Pants convertible via zip

Crotch yoke (1)

• More ease

Tool holder pocket (2)

• The necessary tools always at hand

Triple seams

• Increased lifespan



P.174






**REEF**

P.175

**MAPOC**

P.175

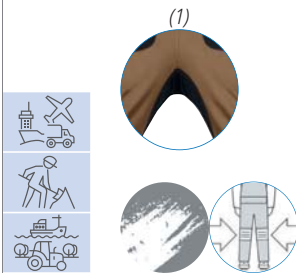
**M2GEN**

						
M5SGI		Stonewashed multipocket vest. Zip fastening under bias. 12 pockets.				
M5SPA	Beige	3 in 1 stonewashed trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	CE	EN14404 TYPE 2 LEVEL 0
						x 10



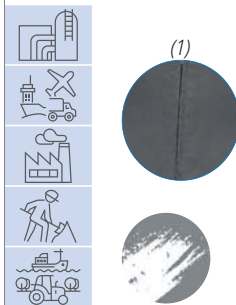
### MSLPA

Crotch yoke (1)  
• More ease



### PALIGVE

Covered zips (1)



### PALIGPA

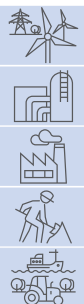


MSLPA	Beige	Trousers. Elasticated waist on both sides. Preformed knees. 6 pockets including 1 ruler.	Canvas 100% cotton 195 g/m <sup>2</sup> . Reinforcement 100% polyamide.	S/M/L/XL/XXL/3XL	CE	EN14404 TYPE 2 LEVEL 1 x 10
PALIGVE	Navy blue	Jacket. Zip fastening under bias. Elasticated cuffs. 3 pockets including 1 inner.	Twill 100% cotton 200 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL	CE	x 10
PALIGPA	Grey	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.				

**BALI**

Synthetic fabric

- Quick drying to keep the skin dry
- Lightweight

**GENOA****NAPOLI**

BALI	Grey-Navy blue Black-Yellow Orange-Navy Blue Red-Grey Green-Grey Navy blue-Orange	Two-coloured tee-shirt with short sleeves. Round collar.	100% polyester 160 g/m <sup>2</sup> . Dry fit treatment.	M/L/XL/ XXL/3XL	
GENOA	Grey-Orange Black-Grey Green-Black Royal blue-Navy blue	Two-coloured tee-shirt with short sleeves (To match the MACH range). Round collar.	Jersey stitch 100% cotton 180 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	x 10
NAPOLI	White Blue Grey	Tee-shirt with short sleeves. Round collar.	Blue/White: Jersey stitch 100% cotton 140 g/m <sup>2</sup> . Grey: Jersey stitch 85% cotton 15% viscose 140 g/m <sup>2</sup> .		

**AGRA**



**TURINO**



**LAZIO**



**ROMA**



AGRA	Black Red Blue	Polo with short sleeves. Collar with button fastening.	Piqué stitch 100% cotton 200 g/m <sup>2</sup> .		
TURINO	Black Grey-Black	Polo with long sleeves (To match MACH range). Knitted cuffs.	Piqué stitch 100% cotton 210 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	x 10
LAZIO	Black Navy blue	Tee-shirt with short sleeves. Round collar.	Jersey stitch 100% cotton 180 g/m <sup>2</sup> .		
ROMA	Grey				

**VERONA**



**BADGE**



Red-Grey Black-Grey Grey-Orange Navy blue-Royal blue	Cap (To match the MACH range).	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> .	One size	x 100	Black	Removable badge holder suitable for all products with badge holder text. Outside dimensions: width 10,5 cm x height 9,5 cm.	Fabric. Plastic.	x 750
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**REEF**

Readjustable



**ATOLL**



Black	Belt. Length: 123 cm. Width: 3.7 cm.	70% polyester 30% elasthane.	One size	x 100	Grey	Belt. Length: 120 cm. Width: 4 cm.	100% polyester.	One size	x 100
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**MAPOC**



**CEINT04**

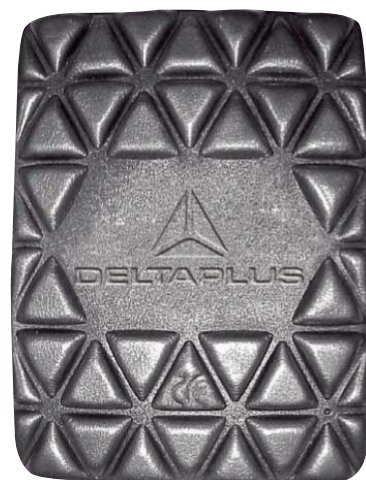





Black	Set of 2 removable pockets. 6 pockets and 1 hammer holder.	100% Oxford polyester canvas.	One size	x 40	Black	Adjustable lumbar belt with velcro band. Double elasticated band for adjustment. Adjustable tightening shoulder-straps. Reinforced at the back with a system of «4 stiffeners».	Canvas polyester elastane. Stiffeners in polypropylene.	M/L/XL	x 48
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**ZIMA**



**M2GEN**



Black	Pair of gel kneepad with outside anti slip shell. Elastic velcro band to maintain the knee. Adjustable strips in elastic velcro.	PVC-coated 100% polyester. 100% polyester lining. PVC shelve.	One size	 EN14404  TYPE 1 LEVEL 2	x 10	Black	Pair of kneepads 20 x 15 cm for trousers, dungarees and overalls of the MACH and PANOSTYLE ranges (not M2CZ3).	Polyethylene foam.	One size	 EN14404 TYPE 2 LEVEL 0	x 10
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*Delta Plus provides protection at work from head to toe for both women and men*



# OUTDOOR WEAR

HELP WITH CHOICE

178-179



Parkas and bombers jackets 180



Bodywarmers 195

Polars - Softshell - Sweats - Pull-over 200



Chill Room and Cold Store 208



Caps - Hoods - Gloves 209



Rain 210



TECHNICAL INFORMATION

375-376



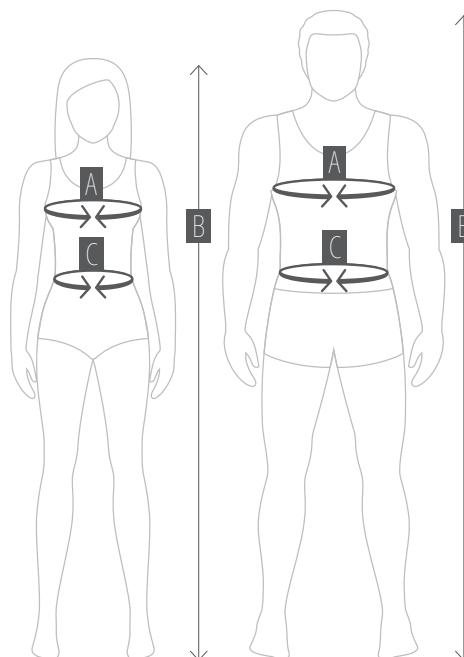
# Sizes

Order the right size by taking the correct measurements.

To take the correct measurements, take the measurements directly on the body, without tightening.

I.E. :

- the measurements outlined in the tables are for the **body**, not the garment.
- for wearing a garment over another, **the width required is provided.**



Chest measurement **A**

Height **B**

Waist measurement **C**



## Size equivalence table

	XS	S	M	L	XL	XXL	3XL
MALE	XS	S	M	L	XL	XXL	3XL
FEMALE	S	M	L	XL	XXL		

		XS	S	M	L	XL	XXL	3XL
MALE	<b>B</b>	156/164	156/164	164/172	172/180	180/188	188/196	196/204
JACKET BOMBER BODYWARMER OVERALL	EU	42/44	44/46	48/50	52/54	56/58	60/62	64/66
	IT	36/38	38/40	42/44	46/48	50/52	54/56	58/60
	DE	46/48	48/50	52/54	56/58	60/62	64/66	68/70
Chest measurement <b>A</b>	cm	78/86	86/94	94/102	102/110	110/118	118/129	129/141
	inch	32 <sup>1/2</sup> /34	34/37	37/40	40/43	43/46 <sup>1/2</sup>	46 <sup>1/2</sup> /50 <sup>1/2</sup>	50 <sup>1/2</sup> /55 <sup>1/2</sup>
TROUSERS DUNGAREES	EU	32/34	34/36	38/40	42/44	46/48	50/52	54/56
	IT/DE	36/38	38/40	42/44	46/48	50/52	54/56	58/60
	cm	58/66	66/74	74/82	82/90	90/98	98/106	106/117
Waist measurement <b>C</b>	inch	23/26	26/29	29/32	32/35 <sup>1/2</sup>	35 <sup>1/2</sup> /38 <sup>1/2</sup>	38 <sup>1/2</sup> /41 <sup>1/2</sup>	41 <sup>1/2</sup> /46
	TEE-SHIRT <b>A</b>	cm	76/79	80/88	89/97	98/106	107/115	116/124



# Choose your product according to your environment

		CE					
		General protection	Cold		Rain	Rain	
		ENISO13688	EN14058	EN342	EN343	* / ** / ***	
<b>Parkas</b>		MILTON2, ITATRY	*			*	
		VIGO	*				
		AREN, CARSON2	*			*	
		EOLE	*			*	
		FINNMARK2, GOTEBOG2, DARWIN3	*				*
		HELSINKI2	*		*	*	***
		ISOLA2	*			*	
ALASKA2	*	*			**		
<b>Bomber</b>		MOTION	*				
		MOOVE, DOON, LORCA,					
		KOPER	*				
		RANDERS	*				*
		YEMAN	*				*
		NORTHWOOD3	*			*	
		NEW DELTA, RENO	*				
<b>Vest</b>		FIDJI2	*			*	
		GDOON, GRAVITY					
		GRANDERS, STOCKTON3, HOLEN, CLUSE2, SIERRA2,	*				
<b>Polars</b>		BRIGHTON2, MARMOT, SHERMAN, KODIAK, ALMA, BEAVER, VERNON					
		NAGOYA	*				
<b>Softshell</b>		HORTEN2	*				
		ORSA	*				
		LULEA2					
		MYSEN2					
<b>Sweats</b>		ANZIO, LECCO, AREZZO, OLINO					
<b>Shirts</b>		RUBY					
<b>Trousers</b>		M2PW3	*				
		850PAN, GALWAY,	*			*	
<b>Coats</b>		MA305, MA400	*			*	
<b>Jacket</b>		OTAKE, 850VES, SLIGO	*			*	
		LITE					
<b>Suits</b>		304, 400	*			*	
<b>Underwear</b>		KOLDYPANTS, KOLDYTOP					
<b>Accessories</b>		CHAMONIX, JURA, KARA, NEVE, NORDIC, LENA					





## MILTON2

Water-repellent and breathable fabric

WP: 8000

Mvp : 800(1)

► Increased comfort of use by a better breathability

Better insulation against the cold (2)

Fleece lined collar (3)

► Comfort wear for optimised cold protection

Shoulder reinforcements (4)

Document storage pocket (5)

► The necessary tools always at hand

Wind-proof mitten (6)

► Maintains heat

► Wind-breaker

Decorative retro-reflective piping on the back (7)

Internal audio guide (8)



MILTON2

Black  
Red  
Navy blue

Parka. Waterproof seams. Fastening with zip storm flap. Adjustable bottom of garment with elastic drawstring. Wadded removable hood. 6 pockets.

94% polyester 6% elasthane fabric, 2 laminated layers. Yokes: Polyurethane-coated Oxford polyester fabric. Quilted Taffeta polyester lining.

S/M/L/XL/  
XXL/3XL

CE x 10

**EOLE**

- Decorative retro-reflective serigraph (1)
- Waterproof zips (2)
- Detachable jacket «Softshell» fabric - 3 in 1 (3)
- Lightness and protection against cold and fine rain
- Use all year round



**TATRY**

- Water-repellent and breathable fabric
- WP: 8000
- Mvp : 800(1)
- Increased comfort of use by a better breathability
- Better insulation against the cold (2)
- Fleece lined collar (3)
- Comfort wear for optimised cold protection
- Inner cuffs (4)
- Maintains heat
- Wind-breaker



EOLE	Grey	Parka 3 in 1, removable jacket. Rain parka: Waterproof seams. Fastening with zip under storm flap. 6 pockets. Removable Jacket: Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 2 pockets.	Fabric 74% polyamide 26% polyester with polyurethane coating. Fixed polyester mesh lining. Removal «Softshell» fabric vest 96% polyester 4% elastane.	S/M/L/XL/XXL/3XL	EN343  x5 CE 3 1* X
TATRY		Parka. Waterproof seams. Fastening with zip under storm flap. Wadded removable hood. Adjustable bottom of garment with elastic drawstring. 8 pockets.	Fabric 94% polyester 6% elastane 2 laminated layers. Padded polyester taffeta lining.		x 10



**AREN**

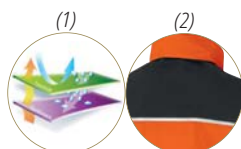
Water-repellent and breathable fabric

WP: 8000

Mvp : 800 (1)

► Increased comfort of use by a better breathability

Decorative retro-reflective piping on the back (2)



AREN	Orange-Grey Black	Parka. Waterproof seams. Fastening zip under storm flap. 4 pockets.	100% polyester mechanical stretch fabric 2 laminated layers. Padded polyester taffeta lining.	S/M/L/XL/ XXL/3XL	CE	EN343  3 1* X	x 10

**Delta Plus provides protection at work from head to toe for both women and men**





**VIGO**

Water-repellent and breathable fabric

WP: 8000

Mvp : 800 (1)

► Increased comfort of use by a better breathability

Fleece lined collar (2)

► Comfort wear for optimised cold protection

Inner cuffs (3)

► Maintains heat

► Wind-breaker



**KOPER**

Sherpa lining on the back

► Comfort wear for optimised cold protection



VIGO	Red-Black Grey	Parka. Fastening zip under storm flap. 4 pockets.	Fabric 96% polyester 4% elastane 2 laminated layers. Padded polyester taffeta lining.	S/M/L/XL/XXL/3XL	CE	x 10
KOPER	Black	Stonewashed jacket. Fastening with zip under press studs storm flap. 6 pockets including 2 inner.	Cloth 100% cotton 270 g/m <sup>2</sup> . Polyester polar fleece lining.			



**CARSON2**

Waterproof fabric

WP: 3000

Decorative retro-reflective piping on the back (1)

Fleece lined collar (2)

Inner cuffs (3)

► Comfort wear for optimised cold protection

Inner cuffs (3)

► Maintains heat

► Wind-breaker

Eyelets under arms

► Increased breathability for better evacuation of perspiration



CARSON2	Grey-Black Black Navy blue-Black	PARKA (To match the MACH 2 range). Waterproof seams. Adjustable waist with elastic drawstring. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	CE	EN343  3 1* X x 10

**Delta Plus provides protection at work from head to toe for both women and men**

**FINNMARK2**

Better insulation against the cold (1)

Fleece lined collar (2)

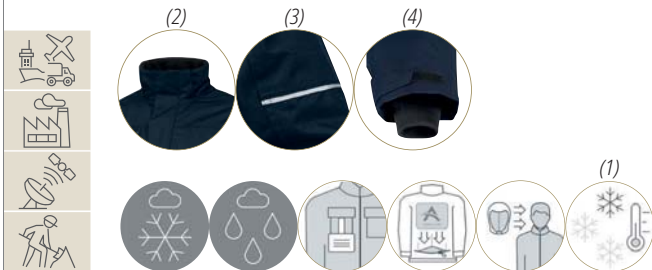
► Comfortable to wear and protects against the cold

Decorative retro-reflective piping on sleeves (3)

Ribbed inner cuffs (4)

► Maintains heat

► Wind-breaker



FINNMARK2	Navy blue Grey	PARKA. Waterproof seams. Fastening with zip under velcro storm flap. Wadded removable hood. 5 pockets.	Polyurethane-coated Ripstop polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	CE	EN343  3 1* X	x 10



**GOTEBORG2**

Parka with no metallic part

Better insulation against the cold (1)

Fleece lined collar (2)

• Comfortable to wear and protects against the cold

Ribbed inner cuffs (3)

• Maintains heat

• Wind-breaker



GOTEBORG2	Navy blue	Parka. Waterproof seams. Fastening with zip under velcro storm flap. Wadded removable hood. 5 pockets.	100% polyester fabric, 2 laminated layers. Top lining: Wadded polyester polar fleece. Bottom lining: Wadded polyester Taffeta.	S/M/L/XL/XXL/3XL	CE	EN343 3 1* X	x 10
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**Delta Plus provides protection at work from head to toe for both women and men**



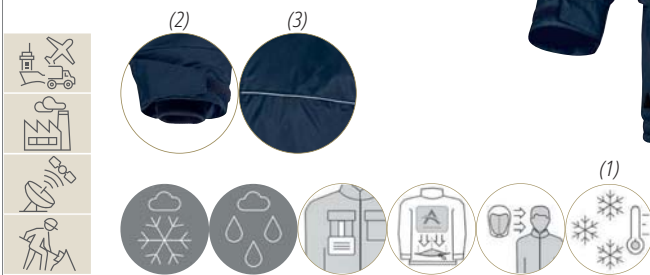
**ALASKA2**

- Protection against cool climates down to -5°C (1)
- 3M Thinsulate™ padded thermal removable lining (2)
- Very high heat retention
- Modulable according to the activity
- Decorative reflective strips (front and back) (3)
- Ribbed inner cuffs (4)
- Maintains heat
- Wind-breaker



**HELSINKI2**

- Insulating textile complex (1)
- Protection from extreme cold
- Ribbed inner cuffs (2)
- Maintains heat
- Wind-breaker
- Decorative retro-reflective piping on the front and back (3)



ALASKA2	Navy blue-Royal blue Black-Grey Black-Red	PARKA 2 in 1, removable lining. PARKA: Waterproof seams. Fastening with zip under storm flap with Velcro strap. Adjustable bottom of garment with elastic drawstring. 5 pockets. Removable lining: 1 pocket.	Polyester pongee fabric with PVC coating. Fixed polyester taffeta lining. Padded polyester taffeta removable lining 3M Thinsulate™.	S/M/L/XL/ XXL/3XL	EN14058  4 3 0,215m <sup>2</sup> .K/W X	x 10
HELSINKI2	Navy blue Navy blue-Royal blue	PARKA. Waterproof seams. Fastening zip under velcro and press studs storm flap. Adjustable waist with elastic drawstring. Wadded removable hood. 4 pockets.	PVC-coated polyester fabric. Wadded polyester Taffeta lining.		EN342  0,273 m <sup>2</sup> .K/W (B) 2 X	

**DARWIN3**

Better insulation against the cold (1)

Ribbed inner cuffs (2)

- Maintains heat
- Wind-breaker



**ISOLA2**

Removable lining (1)

- Increased protection from the cold
- Use all year round

Removable sleeves (2)

- Use all year round

**ISOLA 2  
5 in 1**

Different configuration



DARWIN3	Navy blue	PARKA. Waterproof seams. Adjustable waist with drawstring. 5 pockets.	PVC-coated Pongee polyester fabric. Quilted polyester Taffeta lining.	XS/S/M/L/ XL/XXL/3XL		EN343	
ISOLA2	Black Navy blue	5 in 1 PARKA, removable lining. PARKA: Waterproof seams. Adjustable waist with drawstring. 5 pockets. Removable lining: Collar with corduroy lining. Removable sleeves. Knitted cuffs. Fastening with press studs. 3 pockets.	Polyester Pongee fabric with PVC coating. Fixed polyester Taffeta lining. Removable lining: quilted polyester Taffeta lining. 100% flannelette lining. Collar with corduroy lining. Total weight of the complex taken from the body (outer fabric + padding + lining): 530 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	CE	3 1* X	x 10





**MOOVE**

Decorative retro-reflective piping on the front and back (1)

Polyamide ripstop

• Increased resistance to tearing

Polyester wadding

• Light and warm



MOOVE	Grey-Orange Black-Camouflage Black-Red Navy blue-Orange	Bi-material jacket. Fastening zip under storm flap. Knitted cuffs. 5 pockets.	Quilted polyurethane-coated Ripstop polyamide fabric. Yokes: Polyester fabric. 2 laminated layers. Polyester taffeta lining.	S/M/L/XL/ XXL/3XL	x 10
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## MOTION

Softshell

• Lightness and protection from cold, wind and fine rain

Decorative retro-reflective serigraph (1)



## DOON

Polyester wadding

• Light and warm

To match the SLIGO rain parka (1)

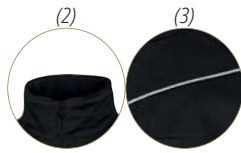
• To add rain protection



MOTION	Grey	Bi-material jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets.	«Softshell» fabric 96% polyester 4% elastane. Yokes: Polyester fabric coated with acrylic padded. Polyester taffeta lining.		CE x 10
DOON	Black-Red Grey-Orange Navy blue-Royal blue	Down jacket (to match MACH 2 range). Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. 2 pockets.	Quilted polyamide fabric. Polyester taffeta lining.	S/M/L/XL/ XXL/3XL	

**YEMAN**

- Better insulation against the cold (1)
- Fleece lined collar (2)
- Comfort wear for optimised cold protection
- Decorative retro-reflective piping on the front and back (3)



**RANDERS**

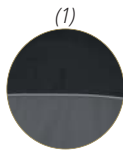
- Better insulation against the cold (1)
- Removable sleeves (2)
- Use all year round



YEMAN	Black	Bomber jacket. Fastening with zip under storm flap. Knitted cuffs and bottom of garment. 6 pockets.	65% polyester 35% cotton Ripstop fabric. Top lining: polyester polar fleece - Bottom lining: Wadded polyester Taffeta.	S/M/L/XL/XXL/3XL	CE	x 10
RANDERS	Grey Black Navy blue	Quilted bomber jacket with removable sleeves. Fastening with zip under storm flap with press studs. Knitted cuffs and bottom of garment. Wadded removable hood. 5 pockets.	Quilted polyurethane-coated polyamide fabric. Lining: Quilted in polyester Taffeta.			

**NORTHWOOD3**

- Waterproof fabric  
WP: 3000
- Decorative retro-reflective piping on the back (1)
- Fleece lined collar (2)
- Comfort wear for optimised cold protection



**LORCA**

- Hand pockets (1)
- Eyelets under arms
- Increased breathability for better evacuation of perspiration



NORTHWOOD3	Grey-Black Black Navy blue-Black	Warm padded jacket (to match the MACH 2 range). Waterproof seams. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/XXL/3XL	CE	EN343  3 1* X	x 10
LORCA	Navy blue Green	Bomber jacket. Knitted collar, cuffs and bottom of garment. 7 pockets.	Twill 60% cotton 40% polyester. Wadded polyester Taffeta lining.				

**RENO**

Fleece lining (1)

► Comfort wear for optimised cold protection



**NEW DELTA**

Removable sleeves (1)

► Use all year round



RENO	Navy blue Black Green	Bomber jacket with removable sleeves. Collar with polar lining for optimal comfort. Knitted cuffs and bottom of garment. 5 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining.	S/M/L/XL/ XXL/3XL	CE	x 10
NEW DELTA	Navy blue	Bomber jacket with removable sleeves. Elasticated cuffs and bottom of garment. 4 pockets.	65% polyester 35% quilted cotton fabric. Quilted polyester Taffeta lining.	M/L/XL/ XXL	CE	x 10

**Delta Plus provides protection at work from head to toe for both women and men**





**FIDJI2**

Better insulation against the cold (1)

Lateral zips (2)

• Freedom of movement

Kidney protector (3)

• Perfect protection of the lower back against the cold



**HOLEN**

Water-repellent and breathable fabric

WP: 8000

Mvp : 1000 (1)

• Increased comfort of use by a better breathability

Decorative retro-reflective piping on the back (2)

Customize your vest according to your current desire (3)



FIDJI2	Black Grey-Black Navy blue-Royal blue Black-Red	Bodywarmer. Collar with polar lining for optimal comfort. 4 pockets.	PVC-coated Pongee polyester fabric. Yokes: PVC-coated Oxford polyester. Wadded polyester polar fleece lining.	S/M/L/XL/ XXL/3XL	CE	x 10
HOLEN	Grey-Black Navy blue-Black	Bodywarmer (To match MACH 2 range). Fastening with zip under storm flap. Armholes with bias finish. 4 pockets.	Softshell 96% polyester 4% elastane fabric. 3 laminated layers.			

### STOCKTON3

- Wind-proof armholes (1)
- Decorative retro-reflective piping on the back (2)
- Multi-pocket



### M2PW3

- Triple seams (1)
  - Increased lifespan
- Crotch yoke
  - More ease
- Flannel lined trousers (2)
  - Comfort wear for optimised cold protection
- MAPOC removable pockets sold separately (3)
  - The necessary tools always at hand



### STOCKTON2

- Wind-proof armholes (1)
- Multi-pocket
- Decorative retro-reflective piping on the front and back
- Hand pockets



STOCKTON3	Grey-Orange Dark grey Navy blue-Royal blue	Multipocket bodywarmer (to match the MACH 2 range). Fastening with zip under storm flap. 9 pockets.	Quilted twill 65% polyester 35% cotton 245 g/m <sup>2</sup> . Wadded polyester Taffeta lining.				
M2PW3	Grey-Orange Navy blue-Royal blue Dark grey	Warm trousers. Regular cut. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m <sup>2</sup> . 100% flannelette lining.	S/M/L/XL/ XXL/3XL	CE	EN14404 TYPE 2 LEVEL 0	x 10
STOCKTON2	Green-Black	Multipocket bodywarmer (to match the MACH range). Fastening with zip under storm flap. Adjustable bottom with elastic drawstring. 9 pockets.	Quilted twill 65% polyester 35% cotton 235 g/m <sup>2</sup> . Wadded polyester Taffeta lining.				





**G-DOON**

To match the SLIGO rain parka (1)

• Offers protection against the rain

**Polyamide ripstop**

• Increased resistance to tearing

**Polyester wadding**

• Light and warm



**GRAVITY**

Original seamless quilting. (1)



**GRANDERS**



G-DOON	Grey-Orange Black-Camouflage Black-Red Navy blue-Royal blue	Bodywarmer. Fastening zip under storm flap. Armholes with bias finishing. Low back protection. 3 pockets.	Polyurethane-coated Ripstop polyamide fabric. Polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	x 10
GRAVITY	Navy blue-Orange Grey-Yellow	Bodywarmer. Fastening zip under storm flap. Low back protection. 4 pockets.	Polyester fabric, 2 laminated layers. Polyester Taffeta lining.		
GRANDERS	Black	Padded vest. Zip fastening. Armholes with bias finish. Adjustable bottom of garment with elastic drawstring. 3 pockets.	Polyester fabric coated with polyurethane. Polyester taffeta lining.		CE

**Delta Plus provides protection at work from head to toe for both women and men**








## SIERRA2

- Wind-proof armholes (1)
- Kidney protector (2)
- Perfect protection of the lower back against the cold
- Hand pockets



## CLUSES2



						
SIERRA2	Navy blue-Orange Grey-Green Navy blue-Red Navy blue	Multipocket bodywarmer (to match the PANOSTYLE range). Fastening with zip under storm flap. Elasticated on both sides and back. 9 pockets.	65% polyester 35% quilted cotton canvas. Wadded polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	CE	x 20
CLUSES2	Navy blue	Bodywarmer. Fastening with zip under storm flap. Elasticated bottom of garment. 6 pockets.	65% polyester 35% quilted cotton canvas. Polyester Taffeta lining.			

Today it is unavoidable, the softshell is THE technical clothing that can be used all year round.  
 Light, flexible, wind-proof it is a true ally for everyday life.  
 When temperatures are mild it is an excellent garment to protect from the wind, cold and light rain.  
 And when it's colder, we recommend using the softshell as a 2nd layer under a parka.

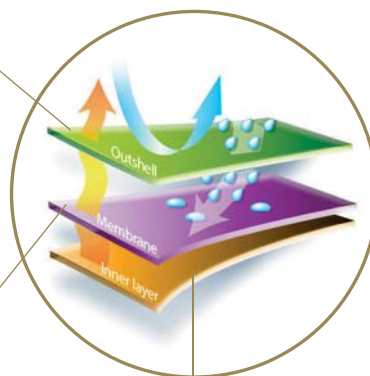
**Laurent Kostrzewa**, Body Protection Product Expert

## Softshells are developed to meet everyday use throughout the year whether worn in the first or second layer.



Softshells are jackets that derive their name from the textile that make them up and whose performance differs according to the textiles used.

The presence of a membrane makes the textile a wind-breaker, it is then composed of 3 textile layers :



- external very often stretch

- the membrane

- the inner side very often polar for the comfort and the contribution of heat.

Composed of 2 textile layers with no membrane, it is a real technical alternative to the polar with its appearance and its water repellent properties.

**The Softshell jacket can be used as a 2nd or 3rd layer. Wind-proof, water repellent, insulating with or without a hood, with or without sleeves, this is real everyday clothing.**

**ORSA**

Water-repellent and breathable fabric

WP: 8000

Mvp : 3000

► Increased comfort of use due to better breathability

**3 layers softshell**

► Lightness and protection from cold, wind and fine rain

Decorative retro-reflective piping on the front and back (1)

Removable sleeves (2)

► Use all year round



ORSA

Navy blue-Orange  
Red-Black

Jacket with removable sleeves. Fastening zip under storm flap. 3 pockets.

Ripstop Softshell 92% polyester 8% elastane fabric. 3 laminated layers.

S/M/L/XL/  
XXL/3XL

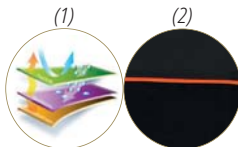
CE x 10



**HORTEN2**

3 layers softshell (1)

• Lightness and protection from cold, wind and fine rain  
 Decorative retro-reflective piping on the front and back (2)



HORTEN2	Grey-Orange Black-Orange Black-Yellow Black-Camouflage	Jacket. Fastening zip under storm flap. Fixed hood. 4 pockets.	Softshell 96% polyester 4% elastane fabric. 3 laminated layers.	S/M/L/XL/ XXL/3XL	CE	x 10
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**Delta Plus provides protection at work from head to toe for both women and men**



**POLARS - SOFTSHELL - SWEATS - PULL-OVER**

**MYSEN2**

Softshell

► Lightness and protection from cold, wind and fine rain

Grey-Fushia colour (1)

► Woman's cut

Removable sleeves (2)

► Use all year round



**MYSEN2F**

Softshell

► Lightness and protection from cold, wind and fine rain



**LULEA2**

Softshell

► Lightness and protection from cold, wind and fine rain



MYSEN2	Grey-Fushia Grey-Black Black-Red Grey-Yellow Blue-Black	Jacket (to match the MACH 2 range). Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets.		XS/S/M/L/XL/XXL XS/S/M/L/XL/XXL/3XL XS/S/M/L/XL/XXL/3XL XS/S/M/L/XL/XXL/3XL XS/S/M/L/XL/XXL/3XL	
MYSEN2F	Grey-Black	Woman's jacket (to match the MACH 2 range). Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets.	Softshell 96% polyester 4% elastane fabric.		x 10
LULEA2	Grey-Orange White-Grey Grey-Black Navy blue-Black	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. 5 pockets.		S/M/L/XL/XXL/3XL	

**BRIGHTON2**



**SHERMAN**



**KODIAK**



BRIGHTON2	Navy blue-Black Grey-Black	Polar fleece jacket. Zip fastening. 5 pockets.	Laminated polyester polar fleece 420 g/m <sup>2</sup> . Yokes: Polyester Pongee Ripstop fabric.	S/M/L/XL/ XXL/3XL	x 10
SHERMAN	Grey	Polar fleece jacket. Fastening with zip under storm flap. Knitted cuffs and bottom of garment. 5 pockets.	Polyester polar fleece 540 g/m <sup>2</sup> .		x 5
KODIAK	Red-Black Grey-Black	Polar fleece jacket. Fastening with zip under storm flap. 4 pockets.	Twill cotton flannel laminated in Sherpa polyester polar fleece 400 g/m <sup>2</sup> . Yokes: Softshell 94% polyester 6% elastane fabric laminated in Sherpa polyester polar fleece 350 g/m <sup>2</sup> .		

**NAGOYA**

Fleece lined collar (1)

• Comfort wear for optimised cold protection

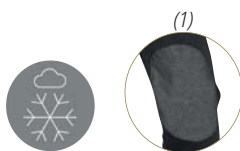
Decorative retro-reflective piping on the front and sleeves (2)



**MARMOT**

Shoulder and elbow reinforcements (1)

• Increased resistance to abrasion



**BEAVER**



NAGOYA	Grey Navy blue	Cardigan jacket (To match the MACH ORIGINALS range). Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. 6 pockets.	Polyester stitch. Yokes: Cordura® and «Softshell» 96% polyester 4% elastane fabric.		CE
MARMOT		Truck driver polar fleece, pullover appearance. Zip closure. Cuffs and bottom of garment with bias finishing.	Polyester knit 285 g/m <sup>2</sup> . Yokes: 100% polyester fabric, 2 laminated layers.	S/M/L/XL/ XXL/3XL	x 10
BEAVER	Grey-Orange Black Grey-Green Navy blue-Orange	Cardigan jacket (To match the MACH and PANOSTYLE ranges). Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. 4 pockets.	Polyester stitch 380 g/m <sup>2</sup> . Yokes: «Softshell» 96% polyester 4% elastane fabric.		

**AREZZO**



**ANZIO**

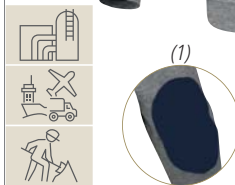


**LECCO**



**OLINO**

Shoulder and elbow reinforcements (1)  
• Increased resistance to abrasion



AREZZO	Grey Black Navy blue	Sweat jacket. Elbows reinforcement. Front fastening with zip. Knitted cuffs and bottom of garment. 2 pockets. Adjustable hood with drawstring.	65% polyester 35% cotton fleece 280 g/m <sup>2</sup> . Reinforcements : Polyurethane-coated Oxford polyester fabric.	S/M/L/XL/ XXL/3XL	x 10
ANZIO	Grey Navy blue	Sweat jacket. Front fastening with zip. Knitted cuffs and bottom of garment. 4 pockets. Adjustable hood with drawstring.	65% polyester fleece 35% cotton 320 g/m <sup>2</sup> .		x 1
LECCO	Wine-coloured-Black Black-Red Grey-Yellow	Sweat. Knitted cuffs and bottom of garment. 2 lower pockets. Adjustable hood with drawstring.	65% polyester fleece 35% cotton 320 g/m <sup>2</sup> .		x 10
OLINO	Grey Navy blue Black	Sweat. Shoulders and elbows reinforcement. Knitted cuffs and bottom of garment.	65% polyester 35% cotton fleece 260 g/m <sup>2</sup> . Reinforcements : Polyurethane-coated Oxford polyester fabric.		x 10



**POLARS - SOFTSHELL - SWEATS - PULL-OVER**

**RUBY**



**VERNON**



**ALMA**



RUBY	Red-Black Grey-Black	Shirt with long sleeves. 1 pocket.	Canvas 100% flannel cotton 150 g/m <sup>2</sup> .		
VERNON	Black Red Royal blue	Polar fleece jacket. Elasticated cuffs. 2 pockets.	Polyester polar fleece 280 g/m <sup>2</sup> .	S/M/L/XL/ XXL/3XL	x 10
ALMA	Navy blue Black	Under Shirt. Raglan sleeve with zip Mandarin collar. Designed for next to skin use.	Polyester polar fleece 200 g/m <sup>2</sup> .		



**KOLDYTOP**

Thermoregulator  
Lightweight  
Ergonomic cut

• Very comfortable to wear, the Coolmax® technology allows faster evacuation of perspiration. Quick drying to give the user maximum comfort



**KOLDYPANTS**

Thermal  
Lightweight  
Ergonomic cut giving comfort

• Very comfortable to wear, the Coolmax® technology allows faster evacuation of perspiration. Quick drying to give the user maximum comfort



KOLDYTOP	Black	Long sleeve raglan t-shirt.	60% polyamide 35% Coolmax® 5% elastane.	S/M/L/XL/XXL	x 10
KOLDYPANTS		Long Johns.			

**Delta Plus provides protection at work from head to toe for both women and men**

### JURA



Navy blue Grey Fluorescent yellow Black Fluorescent orange	Double thickness cap in acrylic knit.	Acrylic knit.	One size	x 240
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### KARA



Black Navy blue	Cap in wadded 3M Thinsulate™ polyester polar fleece.	Wadded 3M Thinsulate™ polyester polar fleece.	One size	x 120
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### LENA



Grey Black	Cap in acrylic knit.	Acrylic knit.	One size	x 240
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### CHAMONIX



Navy blue Red	Neck scarf in polyester polar fleece. Tightening with elastic drawstring.	Polyester polar fleece.	One size	x 120
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### BALTIC



Navy blue	Lightweight Polar fleece Balaclava.	Polyester polar fleece 100 g/m <sup>2</sup> .	One size	x 10
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### NORDIC



Navy blue	Warm cap in polyamide canvas with synthetic lining. Wadded polyester Taffeta lining. Protective ear flaps	Polyamide canvas. Wadded polyester Taffeta lining.	One size	x 120
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### NEVE



Navy blue Black	Gloves in polyester polar fleece.	Polyester polar fleece.	One size	x 120
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**OTAKE**

Breathable waterproof membrane

- Increased breathability for better evacuation of perspiration

Fleece lined collar (1)

- Comfort wear for optimised cold protection

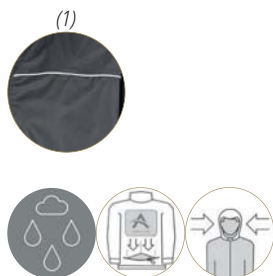
Decorative retro-reflective piping on the front and back (2)

Waterproof zips (3)



**LITE**

Decorative retro-reflective piping on the front and back (1)

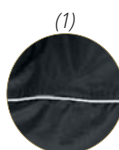


OTAKE	Grey-Black	Light bomber jacket (To match the MACH 5 range). Waterproof seams. Fixed hood with mesh lining. Fastening with zip under storm flap. Elasticated waist and bottom of garment. 6 pockets.	Polyurethane-coated polyamide fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL	CE	EN343  3 3 x 5
LITE	Grey-Green Black Grey-Orange Navy blue-Orange	Light bomber jacket (To match the MACH and PANOSTYLE ranges). Waterproof seams. Fastening with zip under storm flap. Elasticated waist and bottom of garment. 5 pockets.	PVC-coated polyester fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL		x 10



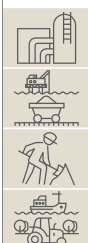
## SLIGO









Decorative retro-reflective piping on the back (1)  
To match the DOON puffer jacket (2)



## GALWAY

Adjustable bottom leg with gussets (1)  
• Easy dressing



							
SLIGO	Black-Red Grey-Orange Navy blue-Royal blue	Light parka (To match the MACH and PANOSTYLE ranges). Waterproof seams. Fastening with zip under storm flap with Velcro strap. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL	CE	EN343 	x 10
GALWAY	Black	Rain trousers. Waterproof seams. Elasticated waist. 2 pockets and 2 hand slits.	Polyurethane-coated Oxford polyester fabric.	S/M/L/XL/ XXL/3XL	CE	3 1* 	x 10



**850VES**


Dorsal ventilation flap

► Increased breathability for better evacuation of perspiration



**850PAN**



850VES	Navy blue Yellow Green	Rain jacket. Sealed seams. Fastening with zip under storm flap. Underarm ventilation with eyelets. Elasticated inside cuffs. Adjustable bottom of garment with elastic drawstring. 2 pockets. Ventilation back flap.	Mixed polyurethane-coated polyester support.	S/M/L/XL/ XXL/3XL	CE	EN343 	x 10
850PAN		Rain trousers. Sealed seams. Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.				3 1* X	

**Delta Plus provides protection at work from head to toe for both women and men**

**400**

**Dorsal ventilation flap and underarm eyelets**

► Increased breathability for better evacuation of perspiration



**MA400**

**Decorative retro-reflective tapes (front and back) (1)**  
**Dorsal ventilation flap and underarm eyelets**

► Increased breathability for better evacuation of perspiration



**304**

**Dorsal ventilation flap and underarm eyelets**

► Increased breathability for better evacuation of perspiration



**305**

**Length 1.20 m**

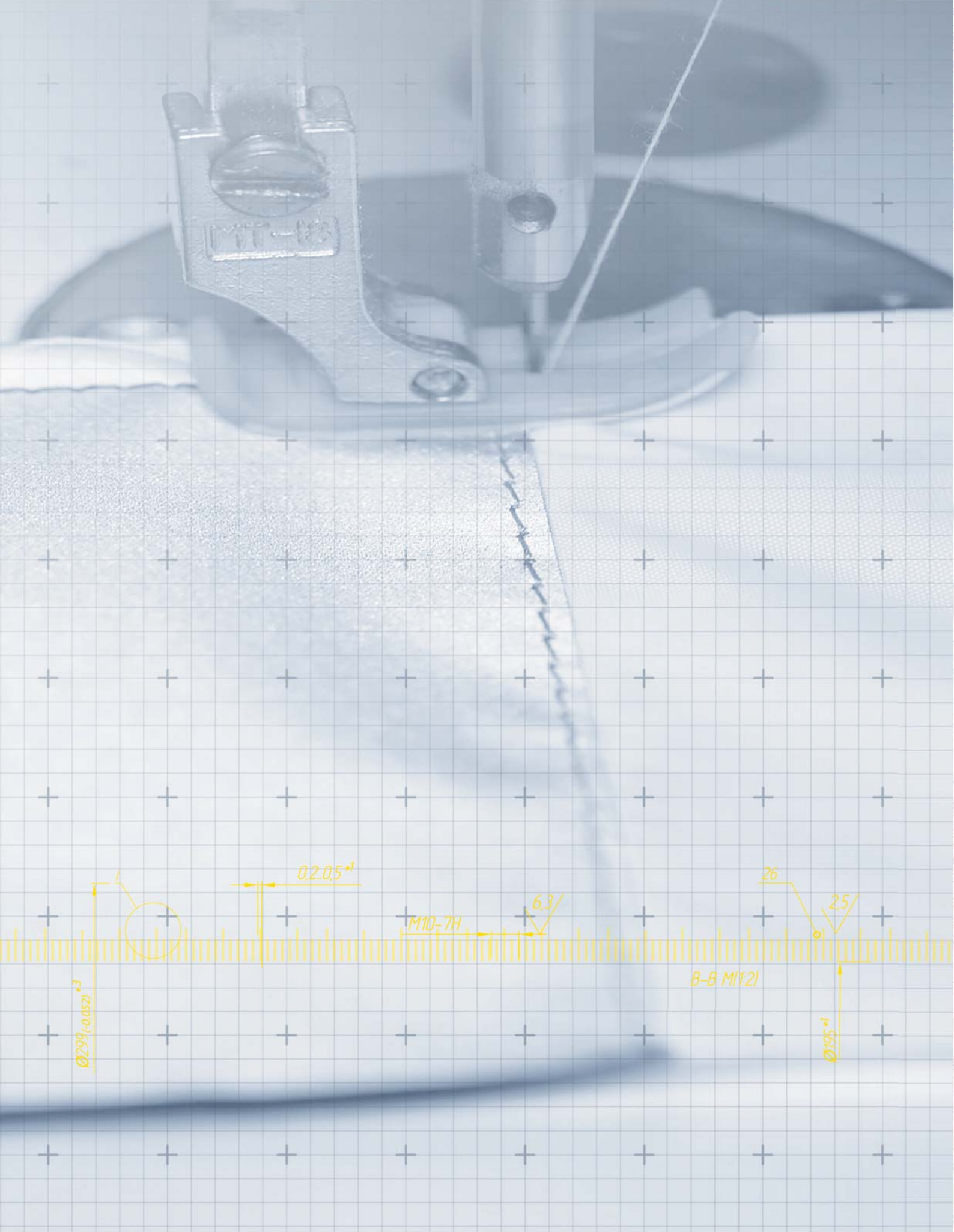
**Dorsal ventilation flap and underarm eyelets**

► Increased breathability for better evacuation of perspiration



400	Royal blue Yellow Navy blue Green	Rain jacket and trousers. Waterproof seams. JACKET: Fastening with zip under storm flap. Fixed hood. Raglan sleeves. Adjustable cuffs with press-studs. 2 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 hand slits.	PVC-coated polyester fabric.	M/L/XL/XXL	CE	EN343  3 1* X	x 20
MA400		Rain coat. Waterproof seams. Fixed hood. Fastening with zip under storm flap. Elasticated inside cuffs. 2 pockets.					x 10
304	Yellow Green	Rain jacket and trousers. Sealed seams. JACKET: Fixed hood. Fastening with zip under press-studs flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets. TROUSERS: Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.	PVC-coated polyester support. Double sided coating.	M/L/XL/XXL/3XL			x 20
305		Rain coat. Sealed seams. Fixed hood. Fastening with double press-stud flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets.					x 20





*Delta Plus provides protection at work from head to toe for both women and men*



# TECHNICAL WEAR

HELP WITH CHOICE

216-217



Outdoor high  
visibility  
High Visibility  
Workwear

218

226



Forestry

230

Chill Room and  
Cold Store

232



Flame retardant -  
Antistatic  
Chemical resistant -  
Flame retardant -  
Antistatic

234

237



Chemical  
protection  
overalls

238

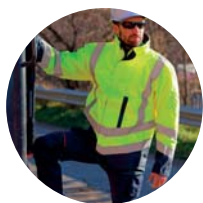


Protective  
aprons  
Welders




239  
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TECHNICAL INFORMATION

373-374



# Choose your product according to your environment



High visibility	CE General protection ENISO13688	High visibility ENISO20471 Cl1, Cl2, Cl3	EN13356	Rain EN343	Warm * / ** / ***
Accessoires 	BAUCE2, BRAS2	*	*		
Bermuda 	PHBE2	*	Cl 1		
Blouson 	RENO HV 	*	Cl 3	*	
	FREEWAYHV	*	Cl 2		
Puffer Jacket 	DOONHV	*	Cl 3		
Gilets 	FIDJIHV	*	Cl 2		
	GILP2, GILP4	*	Cl 2		
Pantalon 	M2PHV, PHPA2	*	Cl 2		
	900PANHV	*	Cl 1	*	
	FARGOHV	*	Cl 1	*	
Parka 	TARMAC 	*	Cl 3	*	
	OPTIMUM2 	*	Cl 3	*	
	STRADA2	*	Cl 3	*	*
	EASYVIEW	*	Cl 3	*	
Polaire, sweat 	MARMOTHV, ASTRAL	*	Cl 3		
	ZENITH	*	Cl 2		
Softshell 	MOONLIGHT2 	*	Cl 3		
	LEGA	*	Cl 3		
T-shirt Polo 	OFFSHORE, NOVA, COMET	*	Cl 2		
	METEOR, STAR	*	Cl 3		
Veste 	M2VHV, PHVE2	*	Cl 2		
	900VESHV	*	Cl 3	*	

Extreme Cold	CE General protection ENISO13688	Cold EN342	Warm * / ** / ***	
Salopettes 	ICEBERG, AUSTRAL2, IGLOO2	*	*	***
Parka 	LAPONIE2, NORDLAND	*	*	***

# Find our size charts below

**Work wear** P.148

**Outdoor wear** P.178

Forestry	Image	Product Codes	CE	Cut	
			General protection	EN ISO 11393-2	EN ISO 11393-6
			ENISO13688		
Trousers, dungarees, gaiters		MELEZE3, ERABLE3, DOUGLA3	*	*	
Jacket		EPICEA3	*		*

## Heat resistant, chemical, antistatic, electric arc, welders

	Image	Product Codes	CE										
			General protection	Heat & Flame	Flame	Welding	Electric arc	Antistatic	Splash	Liquid chemicals	High visibility	Rain	Food Contact
			ENISO13688	ENISO 11612	EN ISO 14116	ENISO 11611	IEC 61482-2	EN1149-5	EN13034	EN14605	ENISO20471 C1, C2, C3	EN343	
<b>Hood</b>		CAGFR2 MAICA2	*	*			*	*					
<b>Cuffs</b>		MANCHB MAIMA2	*			*							
<b>Trousers, overalls</b>		CO600 MAIP2, MAIC2	*							*			
<b>Parka</b>		KOMODO2 KOMODO2HV	*		*			*	*			*	
<b>Underwear</b>		SSVFR2	*	*			*	*					
<b>Sweat, polo</b>		SWEFR2, POLFR2	*	*			*	*					
<b>Aprons</b>		TABPU TABLIVE, TABALPV TABNIT TASOUB	*										*
<b>Jacket</b>		MAIV2	*	*			*	*	*				



**TARMAC**

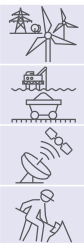
5 in 1

• Use all year round

3 layers softshell (1)

• Lightness and protection from cold, wind and fine rain

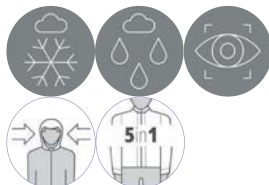
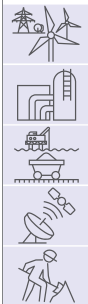
Fixed badge holder included (2)



TARMAC	Fluorescent orange-Grey Fluorescent yellow-Grey	5 in 1 parka with removable jacket. Rain parka: waterproof seams. Fastening with zip under press stud storm flap. 6 pockets. high visibility: Class 3 - silver colour - Shoulder-belt and parallel assembly. Removable jacket: zip fastening. Bottom of sleeves with bias finishing. 2 pockets. high visibility: Class 2 - silver colour - Shoulder-belt assembly.	Polyurethan-coated Oxford polyester fabric. Fixed polyester Taffeta lining. Softshell removable jacket 96% polyester 4% elastane. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	CE	EN ISO 20471 PARKA/JACKET/ BODYWARMER 3 / 2 / 1 Max. 25x	EN343 3 1* X	x 5
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**OPTIMUM2**



**EASYVIEW**

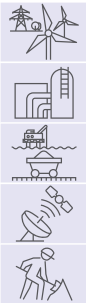


OPTIMUM2	Fluorescent yellow- Navy blue Fluorescent orange- Navy blue	Parka 5 in 1, removable bodywarmer. Parka: Waterproof seams. Fastening with zip under velcro storm flap. Polar fleece collar. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets. Removable jacket: Waterproof seams. Removable sleeves. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Fixed polyester Taffeta lining. Removable bodywarmer: Polyurethane-coated Oxford polyester with removable sleeves in polyester polar fleece. Quilted polyester Taffeta lining. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	CE	EN ISO 20471  <b>PARKA/JACKET/ BODYWARMER</b> 3 / 2 / 2 Max. 25x EN343  3 1* X x 10
EASYVIEW		Warm parka Waterproof seams. Fastening with zip under velcro storm flap. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining. Retro-reflective sewn bands.			EN ISO 20471  <b>CLASS 3</b> Max. 25 x

**STRADA 2**

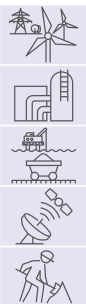
- Better insulation against the cold (1)
- Ribbed inner cuffs (2)
  - Maintains heat
  - Wind-breaker

**3M Scotchlite™**  
Reflective Material



**FARGO HV**

- Kidney protector (1)
  - Perfect protection of the lower back against the cold
- Bottom with gusset (2)
  - Easy dressing



STRADA 2	Fluorescent yellow- Navy blue Fluorescent orange- Navy blue	Warm parka. Waterproof seams. Fixed hood. Underarm ventilation eyelets. Fastening with zip under press stud flap. Adjustable waist with elastic drawstring. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 3 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining. 3M Scotchlite™ retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471 <b>CLASS 3</b> Max. 25x	EN343 	x5
FARGO HV		Warm salopettes. Waterproof seams. Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. High visibility: Class 1 - Silver colour. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Wadded polyester Taffeta lining. Retro-reflective sewn bands.		EN ISO 20471 <b>CLASS 1</b> Max. 25 x	<b>3</b> <b>1*</b> <b>X</b>	x10

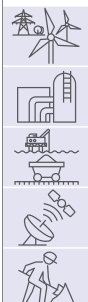
## RENO HV

Removable sleeves (1)

• Use all year round

Fleece lining (2)

• Comfort wear for optimised cold protection



## DOONHV

Polyester wadding

• Light and warm

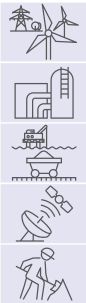


RENO HV	Fluorescent yellow Fluorescent orange	Bomber jacket with removable sleeves. Collar with polar lining for optimal comfort. Knitted cuffs and bottom of garment. Bomber jacket: High visibility Class 3 - Silver colour - Shoulder-belt and parallel assembly. Bodywarmer: High visibility Class 2 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471 EN343  <b>BOMBER/ BODYWARMER</b> 3/2 Max. 25 x 3 1* X x 10
DOONHV		Down jacket. Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. Fixed hood. 2 pockets.	Quilted Ripstop polyester fabric. 2 laminated layers. Polyester taffeta lining. Retro-reflective sewn bands.		EN ISO 20471  <b>CLASS 3</b> Max. 25 x



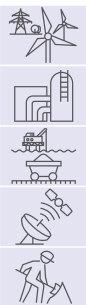
**MOONLIGHT2**

- 3 layers softshell (1)
- Lightness and protection from cold, wind and fine rain
- Removable sleeves (2)
- Use all year round



**LEGA**

- BREATHABLE WATERPROOF
- Evaporative resistance
- Class 3 high visibility
- 3 layers softshell (1)
- Lightness and protection from cold, wind and fine rain



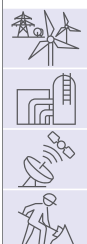
MOONLIGHT2	Fluorescent yellow-Grey Fluorescent orange-Grey	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. Jacket: High visibility, class 3 - Silver colour - Shoulder-belt and parallel assembly. Jacket without sleeves: High visibility, class 2 - Silver colour - Shoulder-belt and parallel assembly. 5 pockets.	Softshell 100% polyester fabric, 3 laminated layers. Retro-reflective sewn bands.	S/M/L/XL/XXL/3XL	EN ISO 20471  <b>BOMBER/ BODYWARMER</b> 3 / 2 Max. 25 x	x 10
LEGA	Fluorescent yellow Fluorescent orange	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 4 pockets.	Softshell 100% polyester fabric, 3 laminated layers. Retro-reflective sewn bands.		EN ISO 20471  <b>CLASS 3</b>	



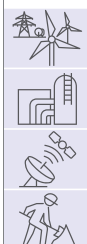
**ZENITH**



**MARMOTHV**



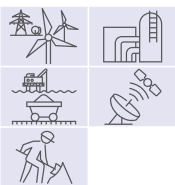
**ASTRAL**



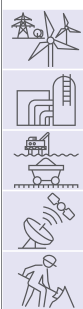
ZENITH	Fluorescent yellow-Navy blue	Polar fleece jacket. Zip fastening. Elasticated cuffs. 2 pockets. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.	Polyester polar fleece 280 g/m <sup>2</sup> . Retro-reflective sewn bands.			EN ISO 20471 <b>CLASS 2</b>	
MARMOTHV	Fluorescent orange-Navy blue	Truck driver polar fleece, pullover appearance. Zip fastening. Cuffs and bottom of garment with bias finishing. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.	Polyester knit 380 g/m <sup>2</sup> . Yokes: Polyester knit 285 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL	CE	EN ISO 20471 <b>CLASS 2 Max. 25 x</b>	x 10
ASTRAL	Fluorescent yellow Fluorescent orange	Sweat jacket. Knitted cuffs and bottom of garment. High visibility: Class 3 - Silver colour - Shoulder-belt assembly.	75% polyester 25% cotton fleece. Retro-reflective sewn bands.			EN ISO 20471 <b>CLASS 3</b>	

**FIDJI HV**

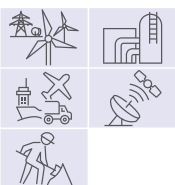
Better insulation against the cold (1)  
Kidney protector (2)  
• Perfect protection of the lower back against the cold  
Zip gussets on the sides (3)



**FREEWAY HV**



**GILP4**

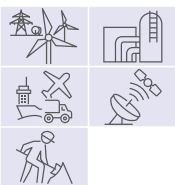


**GILP2**



**BRAS2**

Fixed badge holder included



**BAUCE2**



FIDJI HV	Fluorescent yellow-Navy blue	Reversible body warmer. Zip fastening. 4 pockets. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	Polyurethan-coated Oxford polyester fabric on 1 side. Quilted polyester taffeta fabric on 1 side. Retro-reflective sewn bands.	S/M/L/XL/XXL	EN ISO 20471  <b>CLASS 2</b> Max. 25 x	x 10
FREEWAY HV	Fluorescent yellow Fluorescent orange	Jacket with removable sleeves. Collar with polar fleece lining. Knitted cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	Polyester fabric. Quilted polyester Taffeta lining. Sleeves 65% polyester 35% quilted cotton fabric. Retro-reflective sewn bands.	M/L/XL/XXL		
GILP4	Fluorescent yellow Fluorescent orange	Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	Polyester fabric. Retro-reflective sewn bands.	L/XXL	CE	EN ISO 20471  <b>CLASS 2</b> Max. 25 x
GILP2		Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Parallel assembly.				
BRAS2	Fluorescent yellow	Armband. Fastening with velcro band. Dimensions: 9 cm x 50 cm. High visibility - Silver colour.	Polyurethane-coated Oxford polyester fabric. Retro-reflective sewn bands.	Adjustable	EN13356 <b>TYPE 2</b>	x 50
BAUCE2	Fluorescent yellow Fluorescent orange	Shoulder-belt. Fastening with velcro band. Belt and shoulder bands width: 7.5 cm. High visibility: Silver colour - Shoulder-belt assembly.	PU-coated Oxford polyester fabric. Retro-reflective sewn bands.	Adjustable		

**900VESHV**






Elasticated inner cuffs

• Wind-breaker



**900PANHV**



								
900VESHV	Fluorescent yellow Fluorescent orange	Rain jacket. Sealed seams. Zip fastening with studded storm flap over. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.	PU-coated polyester support - Outside coating. Retro-reflective transferred bands.	S/M/L/XL/ XXL/3XL	CE	EN ISO 20471	EN343	x 10
900PANHV		Rain trousers. Sealed seams. Elasticated waist. Fly closed with press studs. Adjustable bottom of legs with press studs. High visibility: Class 1 - Silver colour - Parallel assembly. 2 hand slits.				CLASS 3		



Our entire range meets the requirements of standard EN ISO 20471 A1 2016.  
 Most models are available in orange and yellow, we developed them with the constant concern of the best value for money without compromising on the quality of the materials used.

**Laurent Kostrzewa**, Body Protection Product Expert



## From T-shirts to the parka to pants and work jackets, our high-visibility clothing line lets you be seen for your safety in any season wherever you work.

A high visibility garment that will allow you to be visible to other road users and machine operators day and night.

To be visible by day, they must use yellow, orange or red fabrics that meet the EN ISO 20471 standard.

These classes guarantee a visibility to a greater or lesser distance that you define according to your place of work: construction site, road, highway...

Class	Day (Yellow/Orange/Red)	Night (Retro-reflective)
1	> 0,14 m <sup>2</sup>	> 0,10 m <sup>2</sup>
2	> 0,50 m <sup>2</sup>	> 0,13 m <sup>2</sup>
3	> 0,80 m <sup>2</sup>	> 0,20m <sup>2</sup>

To be visible at night, they must use retro-reflective tapes that also meet the EN ISO 20471 standard.

The surface and positioning of the retro-reflective fabrics and bands will certify the garment in class 1, 2 or 3.

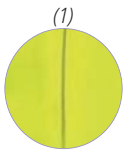
We mainly use retro-reflective tapes sewn to guarantee the best value for money.





**M2VHV**

Covered zips (1)



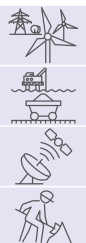
**M2PHV**

Triple seams (1)

• Increased lifespan

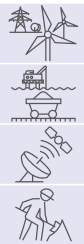
**MAPOC removable pockets sold separately (2)**

• The necessary tools always at hand



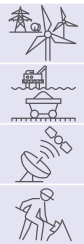
M2VHV	Fluorescent yellow-Grey Fluorescent orange-Grey	Jacket. Elasticated cuffs adjustable with Velcro. 4 pockets including 1 zipped and 1 inside. High visibility: Class 2 - Silver colour - Parallel assembly.	Twill 54% cotton 46% polyester 260 g/m <sup>2</sup> . Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471  <b>JACKET/ JACKET+TROUSERS 2/3</b>	x 10
M2PHV		Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 7 pockets including 1 ruler pocket.		EN ISO 20471  <b>TROUSERS/ JACKET+TROUSERS 2/3</b>	EN14404  <b>TYPE 2 LEVEL 1</b>	

**PHVE2**

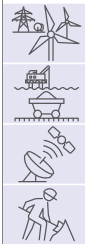


**PHPA2**

**Internal kneepad pockets**  
 ▶ Allows you to insert M2GEN kneepads to work more comfortably on your knees

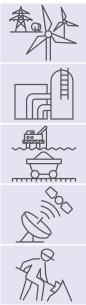


**PHBE2**

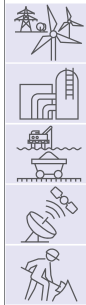


PHVE2		Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.					
PHPA2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	Twill 80% polyester 20% cotton 230 g/m <sup>2</sup> . Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	CE	EN ISO 20471 CLASS 2	EN14404 TYPE 2 LEVEL 1 x 10
PHBE2		Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.				EN ISO 20471 CLASS 1	

**METEOR**



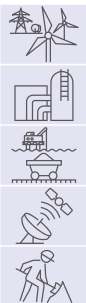
**STAR**



**NOVA**

Double sided knit with cotton inner and polyester outer

• Cotton inner for more comfort and polyester outer to evacuate perspiration and quick drying



**OFFSHORE**



**COMET**



METEOR		Polo with long sleeves. Contrast collar with button placket. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly.			EN ISO 20471  <b>CLASS 3</b>
STAR		Long Sleeve T-Shirt. Round collar. High visibility: Class 3 - Silver colour - Shoulder-belt assembly.	Piqué stitch 100% polyester 235 g/m <sup>2</sup> . Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471  <b>CLASS 3</b> Max. 50 x
NOVA	Fluorescent yellow Fluorescent or ange	Short sleeves tee-shirt. Round collar. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	55% cotton 45% polyester stich 150 g/m <sup>2</sup> . Yokes : Polyester mesh. Retro-reflective sewn bands.		CE EN ISO 20471  <b>CLASS 2</b> Max. 25x
OFFSHORE		Polo with short sleeves. Contrast collar with button placket. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.		M/L/XL/ XXL	EN ISO 20471  <b>CLASS 2</b>
COMET		Short sleeve tee-shirt. Round collar. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	100% polyester stitch 160 g/m <sup>2</sup> . Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	





*Delta Plus provides protection at work from head to toe for both women and men*



### EPICEA 3

Ventilated back closed with Velcro

► Increased breathability for better evacuation of perspiration



### DOUGLAS 3

Zip opening (1)

Decorative retro-reflective tapes

DOUGLAS 3 - EPICEA 3 - MELEZE 3 - ERABLE 3



### MELEZE 3

Ventilation via a zip on the back

► Increased breathability for better evacuation of perspiration

MELEZE 3 - ERABLE 3

Pocket for ruler (1)

► The necessary tools always at hand

MELEZE 3 - ERABLE 3



### ERABLE 3

Buttock reinforcement

Waist reinforcement (1)

► Increased lifespan

MELEZE 3 - ERABLE 3



EPICEA 3	Green-Orange	Cut resistant jacket. Zip fastening. Adjustable cuffs with press studs. 2 pockets.	M/L/XL/XXL		EN381-11  <b>CLASS 0</b>
DOUGLAS 3		Cut resistant gaiters. Internal zip opening. Tightening strap with press studs. 1 pocket.	One size		 EN381-5 <b>TYPE A CLASS 1</b>
MELEZE 3		Cut resistant trousers. Adjustable elasticated waist with internal buttons on both sides. Bottom of legs with zip opening. Preformed knees. 6 pockets including 1 ruler.	M/L/XL/XXL		
ERABLE 3		Cut resistant dungarees. Zip opening leg hem with preformed knees. Adjustable elasticated waist with internal buttons to both sides. Adjustable elasticated braces. 5 pockets including 1 ruler.			



**NORDLAND**

Insulating textile complex (1)

► Protection from extreme cold

Wind-proof mitten (2)

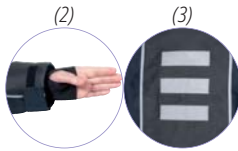
► Maintains heat

► Wind-breaker

Decorative retro-reflective tapes

(3)

NORDLAND - ICEBERG



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**KOLDYTOP**

**ICEBERG**

Insulating textile complex (1)

► Protection from extreme cold

Pockets with waterproof zip (2)

Storm flaps to bottom of legs for extra protection against the cold (3)

Kidney protector (4)

► Perfect protection of the lower back against the cold



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**KOLDYPANTS**



NORDLAND	Navy blue Grey	Parka. Waterproof seams. Removable hood. Collar with polar lining for optimal comfort. Fastening with double zip under press stud storm flap. Adjustable waist and bottom with elastic drawstring. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	CE	EN342  <b>0.358 m<sup>2</sup>.K/W (B)</b> <b>3 X</b>	x5
ICEBERG		Warm Salopette. Waterproof seams. Adjustable waist with elastic drawstring. Adjustable braces. Preformed and reinforced knees. 5 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.				

## LAPONIE2

Insulating textile complex (1)

• Protection from extreme cold

**3M Thinsulate™ wadding**

• Light and very warm

• LAPONIE II - AUSTRAL II - IGLOO II

**Ribbed cuffs (2)**

• Maintains heat

• Wind-breaker



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**ALMA**

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**BALTIC**

## AUSTRAL2

Insulating textile complex (1)

• Protection from extreme cold

**3M Thinsulate™ wadding**

• Lightweight and thermal

**Kidney protector (2)**

• Perfect protection of the lower back against the cold



## IGLOO2

Insulating textile complex (1)

• Protection from extreme cold

**3M Thinsulate™ wadding**

• Light and very warm

**Bottom with gusset (2)**

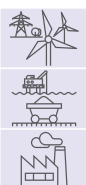
• Easy dressing



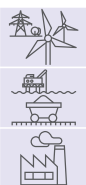
LAPONIE2		Parka. Removable hood with padded 3M Thinsulate™ polar fleece lining. Collar with polar lining for optimal comfort. Zip fastening with Velcro closing storm flap. Elasticated waist at the back. 6 pockets.					
AUSTRAL2	Navy blue	Warm salopette. Adjustable elasticated braces. Bottoms of legs closed with zip under velcro flap. 4 pockets.	85% polyester 15% cotton cloth. Quilted polyester Taffeta lining with 3M Thinsulate™ padded.	M/L/XL/XXL	CE	EN342 0.408 m²·K/W (B) 2 X	x 5
IGLOO2		Overall. Removable hood with padded 3M Thinsulate™ polar fleece lining. Collar with polar fleece lining. Zip fastening with Velcro storm flap over. Elasticated waist at the back. Bottoms of legs closed with zip under Velcro flap. 5 pockets.				EN342 0.373 m²·K/W (B) 2 X	



**MAIVE2**



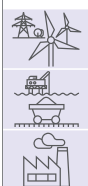
**MAIPA2**



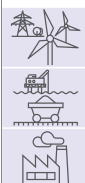
MAIVE2	Navy blue	Jacket. High collar closed by concealed press studs. Zip fastening with concealed studded flap. Elasticated waist on both sides. Adjustable cuffs with press-studs. 5 pockets including 1 inner. 2 gas detector holders.	Twill 99% cotton 2% Antistatic fibre 320 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL/4XL	CE	EN ISO 11612 A1, A2 B1 C1 E1 F1	EN1149-5 	IEC61482 CLASS 1	EN ISO 11611 CLASS 1 A1, A2	x5
MAIPA2		Trousers. Elasticated waist on both sides. 4 pockets.							EN14404 	



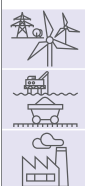
**MAICO2**



**MAICA2**



**MAIMA2**

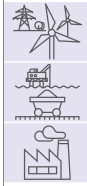


MAICO2	Navy blue	Overalls. High collar closed by concealed press studs. Zip fastening with concealed studded flap. Elasticated back and waist on both sides. Gusset on back. Adjustable cuffs with press-studs. 5 pockets including 1 inner. 2 gas detector holders.	Twill 99% cotton 2% Antistatic fibre 320 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL/4XL	CE	EN ISO 11612	EN1149-5	IEC61482	EN ISO 11611	EN14404 x 5
MAICA2		Hood. Adjustable toggle around the face. Flap covering the shoulders.				A1, A2 B1 C1 E1 F1	CLASS 1	CLASS 1 A1, A2		
MAIMA2		Cuff. Elasticated over sleeve. 40 cm length.		One size						x 50

**SWEFR2**

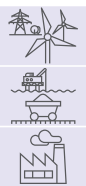


**POLFR2**



**SSVFR2**

Extended cuff with mitten (1)

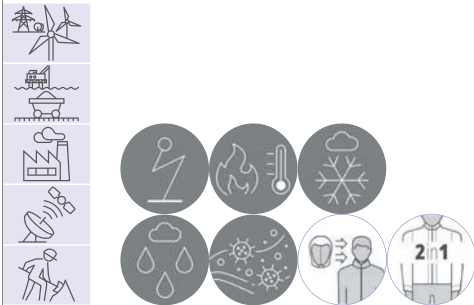


**CAGFR2**



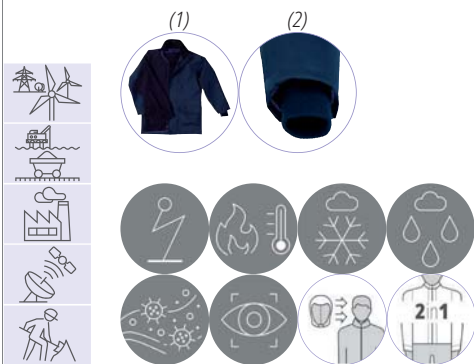
SWEFR2		Sweat. Knitted cuffs and bottom of garment.	Molleton 60% modacrylic 39% Cotton 1% Antistatic fibre 280 g/m <sup>2</sup> .						
POLFR2	Navy blue	Long sleeves polo shirt. Collar closed by concealed press studs. Knitted wrist.	Piqué stitch 60% Modacrylic 39% Cotton 1% Antistatic fibre 210 g/m <sup>2</sup> .	S/M/L/XL/XXL/3XL/4XL	CE	EN ISO 11612	EN1149-5	IEC61482	x 10
SSVFR2		Underwear set. Long sleeves tee-shirt. Long Johns.	Stitch 60% Modacrylic 39% Cotton 1% Antistatic fibre 210 g/m <sup>2</sup> .			A1, A2 B1 C1 F1	CLASS 1		
CAGFR2		Hood with flap covering shoulders.	Stitch 60% Modacrylic 39% Cotton 1% Antistatic fibre 210 g/m <sup>2</sup> .	One size					x 50

**KOMODO2**



**KOMODO2HV**

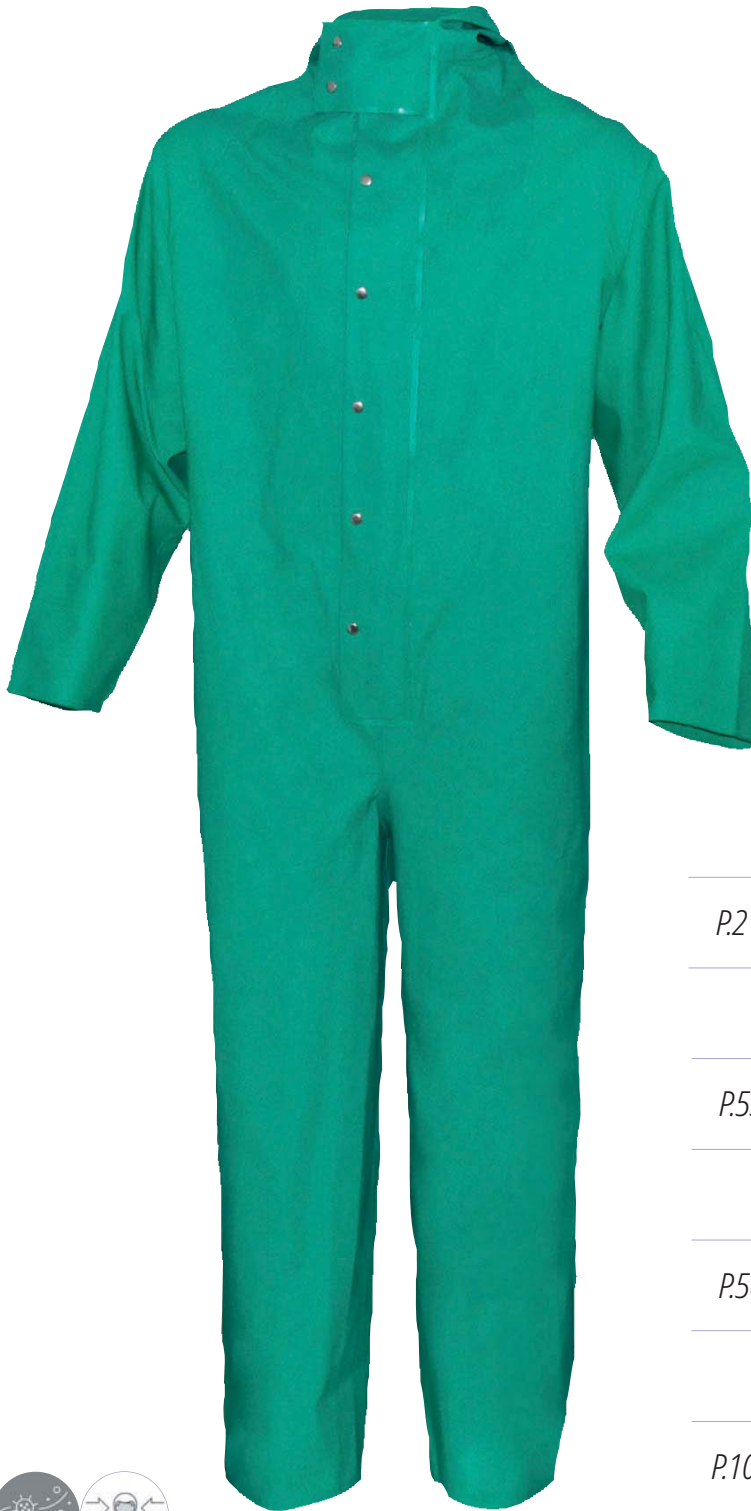
- Removable fleece lining (1)**
- Increased protection from the cold
  - Use all year round
- Ribbed inner cuffs (2)**
- Maintains heat
  - Wind-breaker



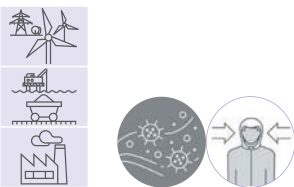
KOMODO2	Navy blue	2 in 1 PARKA: Removable jacket. PARKA: Waterproof seams. Fastening with zip under velcro flap. Removable jacket: Zip fastening. Knitted cuffs. 3 pockets.	Polyurethane-coated 98% polyester 2% antistatic fibre fabric. 100% flame retardant cotton fixe lining. 100% polyester polar fleece removable lining.	XS/S/M/L/ XL/ XXL/3XL/4XL	EN13034 EN ISO14116 EN1149-5 EN343
KOMODO2HV	Fluorescent yellow-Navy blue	2 in 1 PARKA: Removable jacket. PARKA: Waterproof seams. Fastening with zip under velcro flap. High visibility: Class 2 - Silver colour - Parallel assembly. Removable jacket: Zip fastening. Knitted cuffs. 3 pockets.	Polyurethane-coated 98% polyester 2% antistatic fibre fabric. 100% flame retardant cotton fixe lining. 100% polyester polar fleece removable lining. Loxy® retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL/4XL	CE TYPE PB (6) <span style="margin-left: 150px;">3</span> <span style="margin-left: 150px;">3</span> EN ISO 20471  CLASS 2

x 5

**CO600**



**HO600**



P.21

**RUIZ 1 ACETATE**



P.53



**M9200 - ROTOR GALAXY**

P.56





**M9000E A2B2E2K2P3**

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**PETRO VE766**



CO600	Green	Chemical protective overall TYPE 3, liquid-tight. Raglan sleeves. Sealed seams. Zip fastening with studded cover flap and Velcro straps. Fixed elasticated hood, elasticated at wrist and ankles.	Polyester support with double sided PVC 380 g/m <sup>2</sup> coating.	S/M/L/XL/XXL/3XL	CE	EN14605  <b>TYPE 3</b>	x 10
HO600		Chemical protective hood TYPE PB4, tight to chemical sprays protecting the head and the shoulders. Sealed seams. Visor. Indirect ventilation. Rotor® clamping system (patented). Side air vents.		One size		EN14605  <b>TYPE PB (4)</b>	x 1

**Delta Plus provides protection at work from head to toe for both women and men**



**TABNIT**



**TABPU**



White	Apron. Adjustment buckle on the neck. Dimensions: 115 cm x 90 cm. Thickness: 0,35 mm.	Nitrile/Vinyl.	One size	CE	x 50	White	Apron. Elasticated strap with hook. Adjustment buckle on the waist. Dimensions: 115 cm x 90 cm. Thickness: 0,30 mm.	100% polyurethane 355 g/m <sup>2</sup> .	One size	CE	x 25

**TABLIVE**



**TABALPV**



Green	Waterproof all-purpose apron. Drawstring straps. Dimensions: 110 cm x 75 cm. Thickness: 0,35 mm.	PVC-coated polyester support. Double sided coating.	One size	x 50	White	Apron. Adjustment buckle on the neck. Dimensions: 120 cm x 90 cm. Thickness: 0,30 mm.	100% PVC.	One size	x 50
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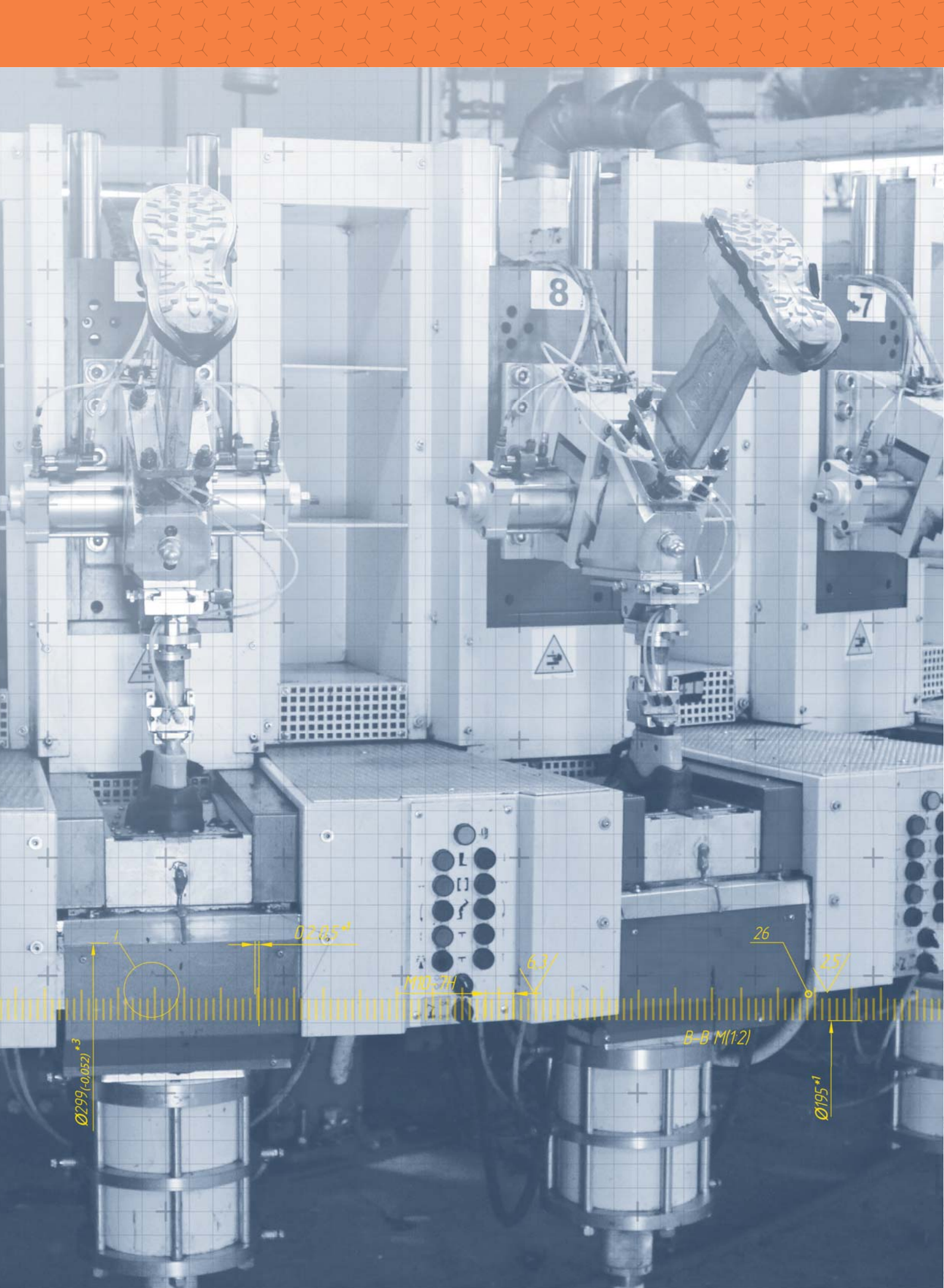
**TASOUB**



**MANCHB**



Grey	Welder apron with bib. Adjustment buckle on the neck. Sewn split leather strap with plastic bucket. Dimensions: 90 cm x 60 cm. Thickness: 1,40 mm to 1,60 mm.	Cowhide split leather.	One size	CE	x 50	Grey	Welders over sleeve. with elasticated hems. 40cm length. Sold in Pairs.	Cowhide split leather.	One size	CE	x 50
				EN ISO 11611						EN ISO 11611	
				CLASS 2 A1						CLASS 2 A1	



*Delta Plus provides protection at work from head to toe for both women and men*



# FOOT PROTECTION

HELP WITH CHOICE

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# Sport

Innovation serving performance

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A breathable and lightness range designed for industry

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Robust and Durable solution for the most extreme environments.

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# Ladies & Gentlemen

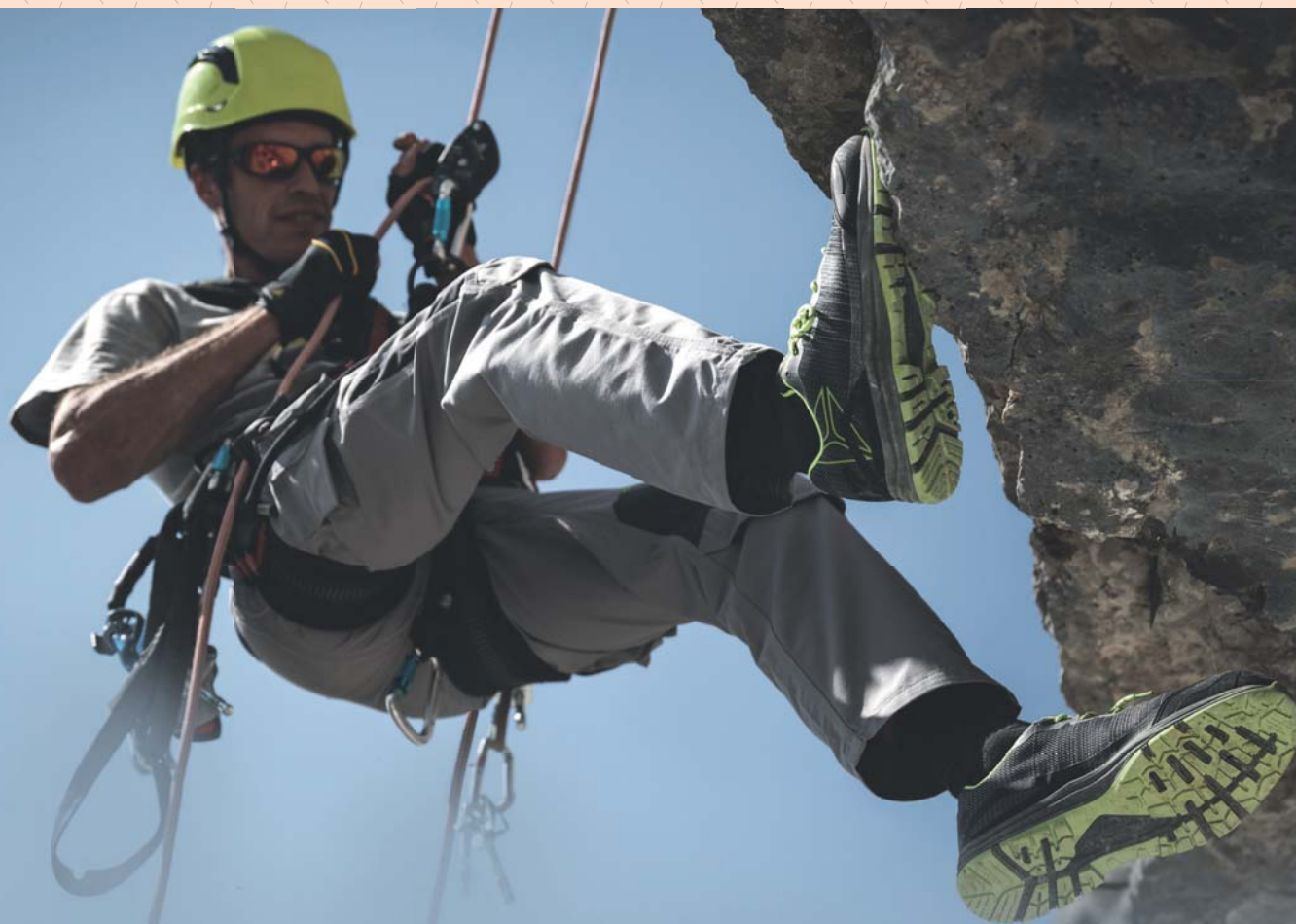
Elegance and Comfort



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	TREKWORK	COMFORT TECH	WATERPROOF	OUTDOOR	PROTECH	X LARGE INDUSTRY		CLASSIC+	CLASSIC INDUSTRY	
	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE		COMPOSITE	NO COMPOSITE	NO COMPOSITE	COMPOSITE	NO COMPOSITE
MATERIAL	PU / NITRILE RUBBER	PU / RUBBER	PU / PU	PU / PU		PU / PU		PU / PU	PU / PU	
ADVANTAGES	<ul style="list-style-type: none"> <li>Ladder grips</li> <li>Flex-Zone for increased flexibility</li> <li>Slip-resistant cleated outsole</li> </ul>	<ul style="list-style-type: none"> <li>Lightness</li> <li>Comfort</li> <li>Rubber outsole for improved abrasion resistance</li> </ul>	<ul style="list-style-type: none"> <li>100% waterproof Deltatex membrane</li> <li>TPU Back reinforcement for a high wear protection and lifespan (NOMAD S3 SRC)</li> <li>PU bumper protection</li> <li>Staples specially designed for an optimal traction and a best slip-resistance on all slippery surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Ladder grips</li> <li>V STAB SYSTEM</li> <li>Flex-Zone</li> </ul>		<ul style="list-style-type: none"> <li>Areas of integrated bending (PANOFLEX® system)</li> <li>Shock absorber Available in ESD(SAULT2 S3 ESD)</li> </ul>		<ul style="list-style-type: none"> <li>Lifespan and comfort</li> </ul>	<ul style="list-style-type: none"> <li>Z grips</li> <li>Crampon design specially designed for optimum grip</li> <li>JUMPER3 S3 FUR / JUMPER3 S3 FUR HC / TAKU S3 properties resistant to -30°C</li> </ul>	
PERFORMANCES	SRC HRO HI CI	SRC HRO	SRC HRO HI CI	SRC		SRC		SRC	SRC	

								
	SPORTSWEAR		LIGHT WALKERS			EXECUTIVE	LADIES	AGRO
	COMPOSITE		COMPOSITE	COMPOSITE	NO COMPOSITE	COMPOSITE	NO COMPOSITE	NO COMPOSITE
MATERIAL	PU / NITRILE RUBBER	PHYLON RUBBER	PU / PU	PU MONO DENSITY		PU MONO DENSITY	PU / PU	PU MONO DENSITY
ADVANTAGES	<ul style="list-style-type: none"> <li>Midsole for effective cushioning: PU (D-SPIRIT/D-STAR) Phylon (DELTAFLY/DELTASPORT/BROOKLYN/MANATHAN/BOSTON/MEMPHIS)</li> <li>Rubber outsole for improved abrasion resistance</li> <li>Crampon design specially designed for optimum grip</li> <li>Upper with MATRYX® technology (DELTAFLY)</li> <li>Available in ESD version (MEMPHIS S1P ESD)</li> </ul>		<ul style="list-style-type: none"> <li>Step rolling (VIAGI S1P ESD et MIAMI S1P ESD)</li> <li>Upper Mesh (ASTI S1P/VIAGI S1P ESD/VIRAGE S1P) or knitted (SUMMER S1P) for better ventilation of foot</li> <li>Available in ESD versions (VIAGI S1P ESD)</li> <li>Upper in canvas for more lightness (ARONA S1)</li> </ul>			<ul style="list-style-type: none"> <li>Non-metallic</li> <li>Lightness and flexibility</li> </ul>		<ul style="list-style-type: none"> <li>Microfibre upper</li> </ul>
PERFORMANCES	SRC HRO		SRC			SRC		SRC



# SPORT



## Innovation serving performance

For users looking for footwear without any compromise, combining the latest technologies from the sports world with sleek designs.

The DELTA PLUS SPORT range offers technical and innovative solutions, for guaranteed performance all day long.

### MATRYX®

Facing needs of lightness, breathability and durability, DELTA PLUS relies on revolutionary technology using aramid fibre threads, bringing exceptional resistance to abrasion and increased flexibility in use.



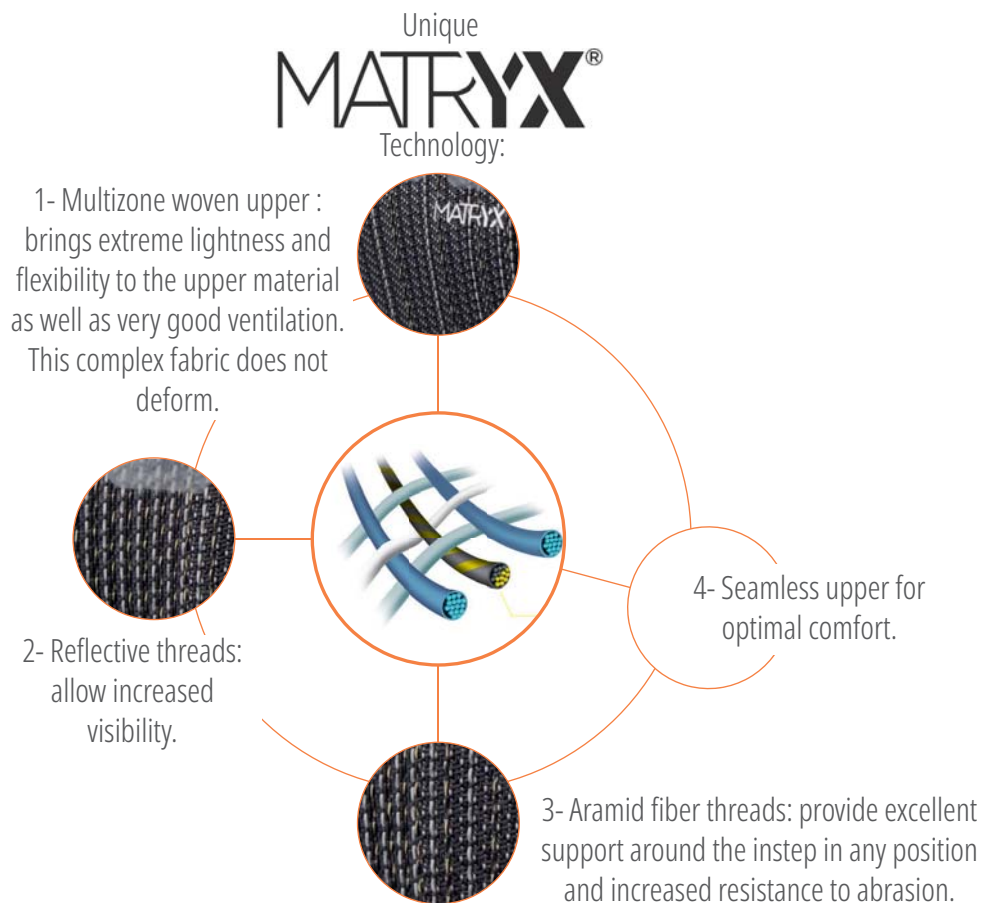
### DELTA PLUS AIR FLOW SYSTEM

Because comfort is an essential element when choosing footwear. The "DELTA PLUS Air Flow System" technology ensures optimal comfort when walking and constant breathability during the whole day.





**MATRYX® is a high performance technical complex made from high tenacity polyamide and aramid fiber thread. This unique and patented French technology enables specific areas to provide efficient solutions in terms of ergonomics and lightness.**



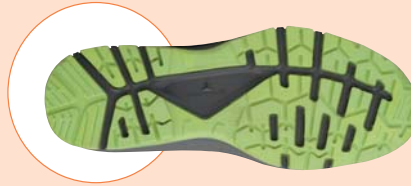


Our goal is to combine the best of sport and safety in order to push performance limits. It is due to our partnership with the French company Chamatex, which patented the **MATRYX®** Technology, that we have developed this innovative premium product. The most of **MATRYX®**: the option of choosing, according to our needs, predefined strategic function zones during weaving. This construction of the upper material reduces by approximately 50% the weight of our upper material. **MATRYX®** is a unique technology and DELTA FLY is unique in the world of PPE.

**Boris Dodin**, Foot Protection Product Expert



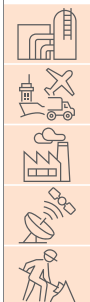
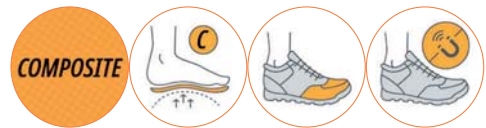
**Outsole with TPU protection bumper**  
 ▶ Reinforced protection of the forefoot



**RUBBER NITRILE OUTSOLE**  
 ▶ Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute)  
 ▶ Optimum adhesion

**WELDED SOLE WITH PHYLON MIDSOLE (EVA)**  
 ▶ Incomparable comfort and lightness

**DELTA FLY S1P SRC**



DELTA FLY S1P SRC	Grey-Green	Upper: Matryx® technology consisting of PU-coated polyamide yarns, polyester monofilament yarns, reflective yarns and aramid fiber areas. Lining: Polyester. Insock: Removable premolded - Polyester on EVA. Outsole: Cemented - EVA/Rubber Nitrile. Non metallic footwear.	39 → 47	CE	EN ISO 20345 S1P HRO SRC	520 g	x 5

The Memphis has been developed to meet the specific requirements of ESD environments to ensure the protection of operators and the electronic components they handle.  
Its design will satisfy the most demanding users looking for a shoe with a modern and sporty look.

**Boris Dodin**, Foot Protection Product Expert

The MEMPHIS S1P ESD allows us to strengthen our ESD range, offering a Sportswear model, while meeting the requirements of standard EN61340-5-1 «Mastery of ESD Shoes».

Retro-reflective tapes and yarns increase visibility for even more safety. The protective zones of the toes and the eyelets, made of seamless TPU, bring advantages from sport technology:

3- Improved comfort and durability

1- More finesse and lightness



2- Increased breathability



#### RUBBER NITRILE OUTSOLE

- Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute)
- Optimum adhesion

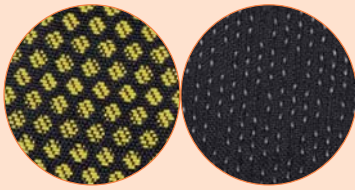
#### WELDED SOLE WITH PHYLON MIDSOLE (EVA)

- Incomparable comfort and lightness

MEMPHIS S1P ESD SRC

BOSTON S1P SRC





**Polyester woven upper**

- Increased breathability and optimal comfort
- Improved lightness and flexibility
- More technical and modern construction

MEMPHIS S1P ESD SRC  
BOSTON S1P SRC



**Outsole with protection toe bumper and TPU counter**

- Reinforced protection of the front and back of the foot
- Increased durability
- Stabilisation of the foot when walking

MEMPHIS S1P ESD SRC  
BOSTON S1P SRC

**EVA outsole preformed and removable**

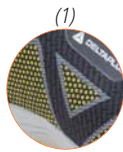
- Reinforced ergonomics and comfort in foot movements

MEMPHIS S1P ESD SRC  
BOSTON S1P SRC

**MEMPHIS S1P ESD SRC**

**Retro-reflective areas (1)**

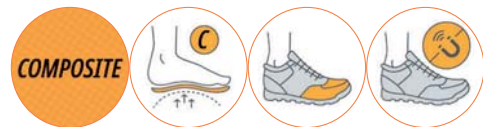
- Increased visibility for better safety



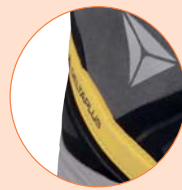
**BOSTON S1P SRC**

**Retro-reflective tapes (1)**

- Increased visibility for better safety



MEMPHIS S1P ESD SRC	Black-Yellow	Upper: Injected PU on mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber Nitrile. Non metallic footwear.	39 → 47	CE	EN ISO 20345 <b>S1P HRO SRC</b>	EN61340 <b>ESD</b>	508 g	x 10
BOSTON S1P SRC	Black						504 g	



**Quilted collar and tongue**

- Reduction of pressure points at the lacing

MANHATTAN S3 SRC  
BROOKLYN S3 SRC  
DELTA SPORT S1P SRC

**Outsole with protection rubber toe bumper**

- Reinforced protection of the forefoot

MANHATTAN S3 SRC  
BROOKLYN S3 SRC

**Rear support of the reflective upper**

- Optimal stabilisation of the foot when walking

• Increased visibility  
MANHATTAN S3 SRC  
BROOKLYN S3 SRC

**RUBBER NITRILE OUTSOLE**

- Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute)

- Optimum adhesion

**WELDED SOLE WITH PHYLON MIDSOLE (EVA)**

- Incomparable comfort and lightness

MANHATTAN S3 SRC  
BROOKLYN S3 SRC  
DELTA SPORT S1P SRC

**MANHATTAN S3 SRC**



**Anti-slide on the inside of the shoe**

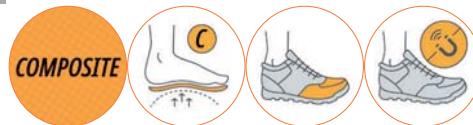
- Improved heel hold
- Reinforced rear section

**Preformed and removable EVA insole**

- Reinforced ergonomics and comfort in foot movements
- Easy drying



**BROOKLYN S3 SRC**



**Anti-slide on the inside of the shoe**

- Improved heel hold
- Reinforced rear section

**EVA outsole preformed and removable**

- Reinforced ergonomics and comfort in foot movements
- Easy drying



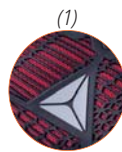
**DELTA SPORT S1P SRC**

**PU upper injected on Mesh (1)**

- Increased resistance of the upper material to abrasion
- Improved foot support thanks to the «Cage» concept
- Excellent ventilation with Mesh

**EVA outsole preformed and removable**

- Reinforced ergonomics and comfort during movement



MANHATTAN S3 SRC	Black-Yellow	Upper: Suede split leather (cowhide), S3 water resistant treatment with front rubber reinforcement. Lining: Polyester non-woven and knitted mesh. Insock: Removable premolded - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber. Non metallic shoe.	39 → 47	CE	EN ISO 20345 S3 HRO SRC	568 g	x 10
BROOKLYN S3 SRC	Black-Orange	Upper: Suede split leather (cowhide), S3 water resistant treatment with front rubber reinforcement. Lining: Polyester non-woven and knitted mesh. Insock: Removable premolded - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber. Non metallic shoe.				524 g	
DELTA SPORT S1P SRC	Blue-Yellow Black-Red	Upper: Injected PU on mesh. Lining: Polyester. Insock: Removable premolded - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber Nitrile. Non metallic footwear.	39 → 47	EN ISO 20345 S1P HRO SRC	482 g		



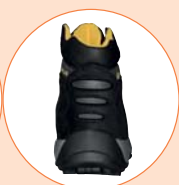


**Quilted collar and tongue**

• Reduction of pressure points at the lacing  
SAGA S3 SRC



**SAGA S3 SRC**



**RUBBER SOLE**

• Increased durability  
SAGA S3 SRC

**SAGA S3 SRC**



SAGA S3 SRC	Beige Black Brown	Upper: Nubuck leather, S3 water resistant treatment. Lining: Polyester. Insock: Removable - polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	39 → 48	CE	EN ISO 20345 S3 HRO SRC	ASTM F2413 M1/75 C/75 PR SD	842 g x5



**Quilted collar and tongue**

- Reduction of pressure points at the lacing

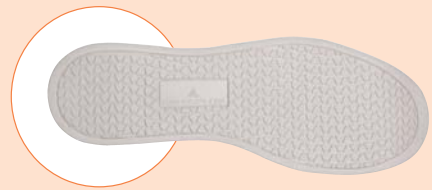
D-SPIRIT S3 SRC      SMASH S1P SRC  
D-SPIRIT S1P SRC  
D-STAR S1P SRC



**RUBBER OUTSOLE**

- Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute)
- Optimum adhesion

D-SPIRIT S3 SRC  
D-SPIRIT S1P SRC  
D-STAR S1P SRC  
SMASH S1P SRC



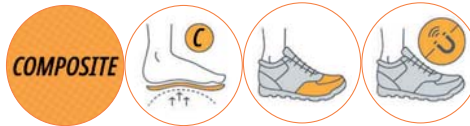
**D-SPIRIT S3 SRC**

**EVA insole**

- Reinforced plantar comfort throughout the day

**SOLE WITH PU MIDSOLE**

- Reinforced plantar cushioning



**D-SPIRIT S1P SRC**



**D-SPIRIT S1P SRC**



**D-STAR S1P SRC**



**EVA insole**

- Reinforced plantar comfort throughout the day

**NITRILE RUBBER OUTSOLE**

- Reinforced plantar cushioning



**SMASH S1P SRC**



**EVA outsole preformed and removable**

- Reinforced ergonomics and comfort in foot movements
- Easy drying



D-SPIRIT S3 SRC	Black	Upper: Leather, S3 water resistant treatment. Lining: Polyester. Insock: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber Nitrile. Non metallic footwear.	36 → 47	CE	EN ISO 20345 S3 HRO SRC	540 g	x 5
D-SPIRIT S1P SRC	Blue-Grey	Upper: Suede split leather. Lining: Polyester. Insock: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber Nitrile. Non metallic footwear.			514 g		
D-SPIRIT S1P SRC	Black	Upper: Leather/mesh. Lining: Polyester. Insock: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber Nitrile. Non metallic footwear.	498 g				
D-STAR S1P SRC	Beige	Upper: Suede split leather. Lining: Polyester. Insock: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber Nitrile. Non metallic footwear.	38 → 47		EN ISO 20345 S1P HRO SRC	534 g	
SMASH S1P SRC	White	Upper: Leather. Lining: Polyester. Insock: Removable premolded EVA. Outsole: Cemented - Rubber nitrile.	36 → 47			604 g	x 10





# INDOOR



A breathable and lightweight range designed for industry

For industrial jobs, where safety shoes must be comfortable while meeting the specific needs of the business environment (Automotive, Logistics, Microelectronics Industry). The INDOOR DELTA PLUS range offers a complete solution, whatever the need. Whether that be flexibility, lightness or optimal comfort all day long.

#### PANOFLEX SYSTEM

With the flexibility of the footwear being crucial for the overall comfort, DELTA PLUS has designed the PANOFLEX System, which facilitates the natural course of the step, bringing additional flexibility on the front of the foot.



#### ESD

The "ESD" device makes it possible to control electric discharges for manufacturing, processing, assembly, packaging, maintenance, testing, inspection, transport or handling of parts, assemblies and electrical or electronic equipment liable to be damaged by electrostatic discharges.





**Polyester mesh upper**

- Limitation of abrasion
- Good ventilation of the foot

VIRAGE S1P SRC  
ASTI S1P SRC



**DUAL DENSITY PU OUTSOLE**

- Reinforced shock absorption
- Good resistance to abrasion

VIRAGE S1P SRC  
ASTI S1P SRC



**PU MONO-DENSITY SOLE**

- High flexibility

COMO S1P SRC  
ARONA S1P SRC  
SUMMER S1P SRC

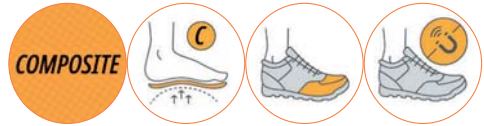
**1- Flex zone  
PANOFLEX® system  
2- Step rolling for optimal comfort  
during movement**

- 1- Foot motion improved
- 2- Less fatigue at the end of the day and a more comfortable walk

**VIRAGE S1P SRC**

**ARCH SUPPORT SYSTEM (1)**

- Reinforced stability in the supports
- Good twist control



**VIAGI S1P SRC ESD**



**ASTI S1P SRC**



VIAGI S1P SRC ESD	Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insock: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 → 48	CE	EN ISO 20345 S1P SRC	EN61340 ESD	610 g x 10
VIRAGE S1P SRC	Grey-Green Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insock: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.					612 g
ASTI S1P SRC	Grey-Blue Black Beige	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insock: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 → 48	CE	EN ISO 20345 S1P SRC		544 g x 10



**COMO S1P SRC**



**ARONA S1P SRC**



**SUMMER S1P SRC**



COMO S1P SRC	Navy blue Brown-Beige Black-Fuchsia	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Single density PU.	35 → 48 35 → 48 35 → 43		
ARONA S1P SRC	Beige Black	Upper: Canvas. Insock: Removable premolded - polyester on EVA. Midsole: injected - Single density PU.		CE EN ISO 20345 <b>S1P SRC</b>	x 10
SUMMER S1P SRC	Blue-Yellow Grey-Orange	Upper: Polyester and cotton. Insock: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.	35 → 48		
				406 g	

Comfortable at work and at home, this is what makes **MIAMI** a unique product. Responding to the needs of the manufacturing trades was our brief to design a range of safety footwear that is worn as if you were at home.

**Boris Dodin**, Foot Protection Product Expert

# If you are looking for lightness, flexibility and comfort, the **INDOOR** range will meet these expectations throughout the day!

## MIAMI S1P SRC



## MIAMI S1P CAMO SRC



## MIAMI S1P SRC ESD



MIAMI S1P SRC ESD	Black	Upper: Polyester and cotton. Insock: Removable premolded - polyester on EVA. Midsole: injected - Single density PU.	35 → 48	CE	EN ISO 20345 S1P SRC	EN61340 ESD	456 g	x 10
MIAMI S1P SRC	Grey-Navy blue Black				EN ISO 20345 S1P SRC	442 g		
MIAMI S1P CAMO SRC	Khaki				EN ISO 20345 S1P SRC	460 g		

**Delta Plus provides protection at work from head to toe for both women and men**



**PU MONO-DENSITY SOLE**

• High flexibility

MIAMI S1P SRC  
MIAMI S1P CAMO SRC  
MIAMI S1P SRC ESD



TANGARA2 S1P SRC  
RIMINI4 S1P SRC  
FENNEC4 S1P SRC  
FENNEC4 S1 SRC

**TANGARA2 S1P SRC**



**RIMINI4 S1P SRC**



**FENNEC4 S1P SRC**



**FENNEC4 S1 SRC**



TANGARA2 S1P SRC	Grey-Yellow	Upper: Ventilated suede split leather. Lining: Polyamide absorbing. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.				601 g	
RIMINI4 S1P SRC	Beige-Yellow Navy blue-Orange		36 → 45 46 → 47	CE	EN ISO 20345 S1P SRC	594 g	x 10 x 5
FENNEC4 S1P SRC	Grey	Upper: Suede split leather. Lining: Polyamide absorbing. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.				628 g	
FENNEC4 S1 SRC					EN ISO 20345 S1 SRC	477 g	





COBRA4 S3 SRC

**RUBBER NITRILE OUTSOLE**

- Good resistance to abrasion and contact heat (standard HRO = 300°C for 1 minute)
- Guaranteed insulation of the foot in the shoe against heat (HI: the temperature inside must not exceed 22°C after 30 minutes in a sand bath at +150°C)
- Optimum adhesion on all types of surfaces



MIWA S3 M SRC

**COBRA4 S3 SRC**

Standards EN ISO 20349-2: 2017 - WG special welders

- Protection against thermal risks and projections
- Specially designed for any multi-sector welding activity

**Two elastics inside for closer fitting protection**

- Improved hold on the kick of the foot

**Leather collar and para-aramid thread**

- Enhanced heat protection

**Velcro closure**

- Fast opening
- Protection against projections

**Integrated flexion zones**

- Increased flexibility at the metatarsal level
- Work facilitated whatever the position



**MIWA S3 M SRC**



COBRA4 S3 SRC		Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyester. Insock: Removable premolded - Polyamide on EVA. Outsole: Injected - PU/Rubber nitrile. • Para aramid seams. • Flap. Fastening with velcro band.	36 → 45 46 → 48		EN ISO 20345 <b>S3 HRO HI SRC</b>	EN ISO 20349-2 WG	726 g x 10 x 5
MIWA S3 M SRC	Black	Upper: Pigmented Buffalo leather 1.8-2 mm, S3 water resistant treatment. Lining: Polyamide mesh. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU. • Integrating a protection flap with a pre-molded part to the metatarsals.	36 → 45 46 → 47	CE	EN ISO 20345 <b>S3 M SRC</b>		699 g x 10 x 5

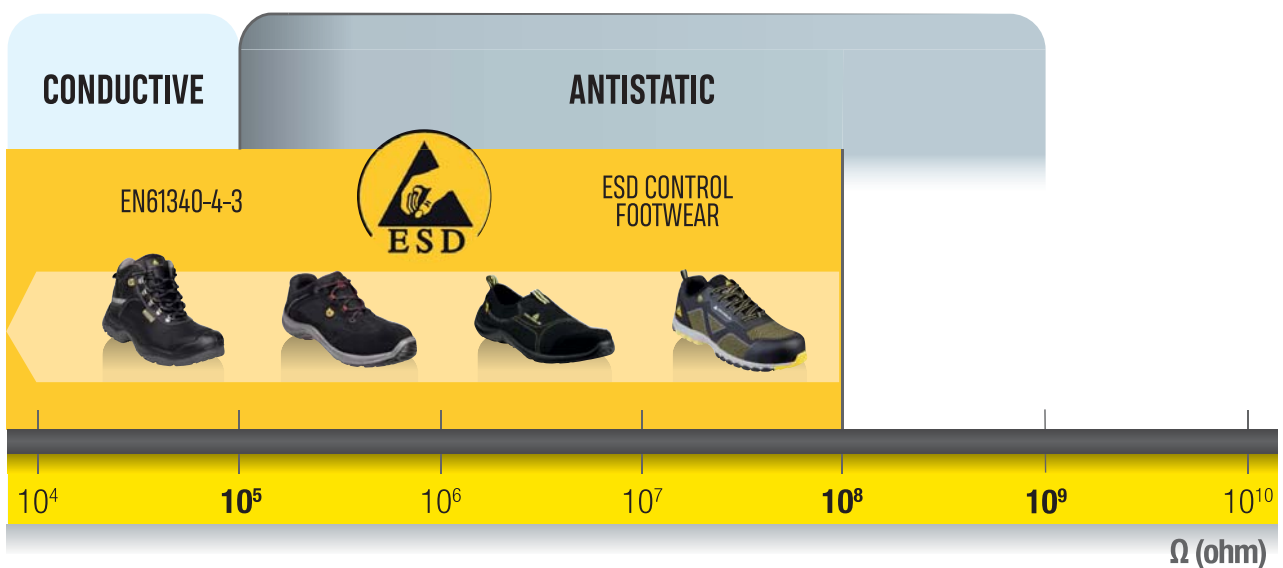




# What does the regulation say?

The requirements for the design, establishment, implementation and maintenance of electrostatic discharge control devices (ESD) that can damage electronic components are defined by standard EN61340-5-1. The device called "ESD» is used to control electrical discharges for manufacturing, processing, assembly, packaging, maintenance, testing, inspection, transport or handling of electrical or electronic parts, assemblies and equipment that may be damaged by electrostatic discharges. To be usable in an ESD device, a shoe must at least be

qualified according to the test methods of EN IEC 61340-4-3 and offer an electrical resistance lower than  $10^8 \Omega$ . SAULT2 ESD, VIAGI ESD, MIAMI ESD and MEMPHIS ESD meet this level of resistance required for compliance. These shoes, thanks to their low electrical resistance, limit the risk of electrostatic discharge.



## RISK OF ELECTROSTATIC DISCHARGE (ESD\*)

Static electricity present on operators must be controlled in the following areas of use, as it can :

- damage materials to sensitive electric shock: various electronic and electrical industries ...
- generate particles likely to be deposited on the paint : automotive industry, household appliances ...

The purpose of ESD control is to protect the electronic equipment being handled and not the wearer.

\* Electrostatic Discharge



The Memphis has been developed to meet the specific requirements of ESD environments to ensure the protection of operators and the electronic components they handle.  
Its design will satisfy the most demanding users looking for a shoe with a modern and sporty look.

**Boris Dodin**, Foot Protection Product Expert



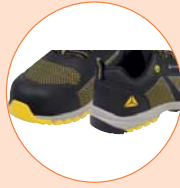
**Polyester woven upper**

- Increased breathability and optimal comfort
- Improved lightness and flexibility
- More technical and modern construction



**Retro-reflective areas**

- Increased visibility for better safety



**Outsole with protection toe bumper and TPU counter**

- Reinforced protection of the front and back of the foot
- Increased durability
- Stabilisation of the foot when walking



**RUBBER NITRILE OUTSOLE**

- Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute)
- Optimum adhesion

**WELDED SOLE WITH PHYLON MIDSOLE (EVA)**

- Incomparable comfort and lightness

**MEMPHIS S1P ESD SRC**

EVA outsole preformed and removable

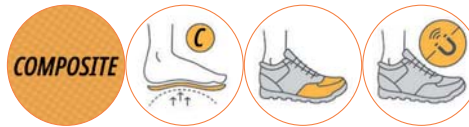
- Reinforced ergonomics and comfort in foot movements



MEMPHIS S1P ESD SRC	Black-Yellow	Upper: Injected PU on mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber Nitrile. Non metallic footwear.	39 → 47	CE	EN ISO 20345 S1P HRO SRC	EN61340 ESD	483 g	x 10

Delta Plus provides protection at work from head to toe for both women and men

VIAGI S1P SRC ESD



SAULT2 S3 SRC ESD



MIAMI S1P SRC ESD



VIAGI S1P SRC ESD	Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 → 48	EN ISO 20345 S1P SRC	610 g	x 10
SAULT2 S3 SRC ESD	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insock: Removable premolded - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 → 48	EN ISO 20345 S3 SRC	734 g	x 5
MIAMI S1P SRC ESD		Upper: Polyester and cotton. Insock: Removable premolded - polyester on EVA. Midsole: injected - Single density PU.	35 → 48	EN ISO 20345 S1P SRC	456 g	x 10

**MIAMI S2 SRC**



**ROBION3 S2 SRC**



**MAUBEC 3 SBEA SRC**



MIAMI S2 SRC	White Black	Upper: Microfibre/PU. Insock: Removable premolded - polyester on EVA. Midsole: Injected - Single density PU. • Water resistant upper in microfibre • Machine wash up to 30° C, easy to maintain	35 → 48	CE	EN ISO 20345 <b>S2 SRC</b>	402 g	x 10
ROBION3 S2 SRC		Upper: MicrofiberLining; Polyamide. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - PU bi-density.				468 g	
MAUBEC 3 SBEA SRC	White	• Water resistant upper in microfibre • Machine wash up to 30°C, easy to maintain • Absorbent non woven lining for quick dry	35 → 47		EN ISO 20345 <b>SBEA E SRC</b>	524 g	x 5

**Delta Plus provides protection at work from head to toe for both women and men**





# OUTDOOR



Robust and Durable solution for the most extreme environments.

When the environmental conditions require a technical level of the material and flawless robustness. The OUTDOOR DELTAPLUS range is the solution, with specially developed footwear designed around the user's needs, integrating all environmental constraints for a robust, durable and efficient result.

## DELTA-TEX

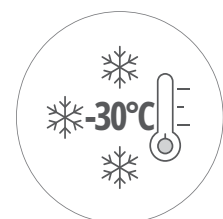
When weather conditions require a suitable technical solution, the DELTA-TEX membrane guarantees both complete and total impermeability of the shoe, while maintaining a high level of breathability all day long.



## COLD PERFORMANCE SYSTEM (CPS)

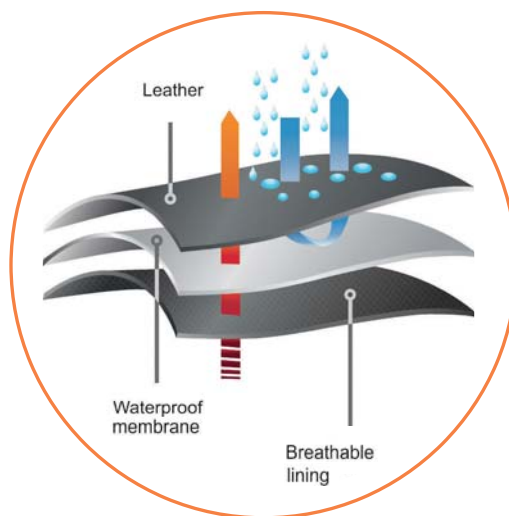
COLD PERFORMANCE SYSTEM (CPS): In the most demanding environments, the cold can be an aggravating risk factor for workers. Thanks to CPS, DELTA PLUS brings an ideal solution to protect the user from cold, while guaranteeing the performances of the footwear.

The association of a specific polyurethane sole maintaining the properties down to -30°, a double fur of quality, and a felt insole provides excellent cold insulation.



**The protection also goes through an innovative concept of impermeability and water resistance. The DELTA-TEX™ membrane protects you from the weather while wicking away moisture.**

**DELTA-TEX**  
**WATER PROOF**  
by **DELTAPLUS**



DELTA-Tex polyester membrane WATERPROOF: waterproof and breathable. It offers a water-proofing greater than 10,000 mm/cm<sup>2</sup> (ISO811). Impermeability is measured by placing this membrane under a tube of water (water column). The minimum water height at which the first drops of water pass through this membrane represents its impermeability.



The 4 nylon bands at the instep have two main functions:

- 1- They offer a reinforced support of the foot
- 2- Due to the retro-reflective tapes, they increase the visibility for even more security.

COMPOSITE - 100% DELTA-TEX WATERPROOF MEMBRANE - **WATERPROOF**

The weather, work and the outdoor business sector leads you to face harsh conditions. That is why we have developed this range whose DELTA-TEX™ membrane protects you perfectly from bad weather.

**Boris Dodin**, Foot Protection Product Expert



**Outsole with PU protection bumper**

► Reinforced protection of the forefoot

NOMAD S3 SRC  
SAM Y S3 SRC



**Polyester lining**

► Softer and more comfort

NOMAD S3 SRC  
SAM Y S3 SRC



**Studded sole, SRC standards**

► Performing grip on all types of indoor and outdoor surfaces

NOMAD S3 SRC  
SAM Y S3 SRC

**NOMAD S3 SRC**

**Rear reinforcement (1)**

► Stabilisation of the foot when walking  
► Reinforced protection on the rear of the shoe



**DELTA-TEX WATER PROOF**  
by DELTAPLUS

**SAM Y S3 SRC**

**Fast lacing (1)**

► Time saving

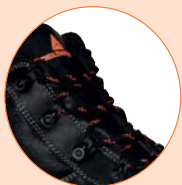


**DELTA-TEX WATER PROOF**  
by DELTAPLUS

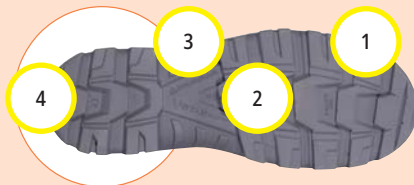


NOMAD S3 SRC	Black Brown	Upper: Full grain leather, S3 water resistant treatment. Lining: DELTA-TEX™ waterproof polyester membrane. Insock: Removable - polyester on EVA. Midsole: Injected - Dual density PU. PU bumper protection. Non metallic footwear.	39 → 48	CE	EN ISO 20345 S3 WR HI CI SRC	812 g	x 5
SAM Y S3 SRC	Black	Upper: Full grain leather, S3 water resistant treatment. Lining: DELTA-TEX™ waterproof polyester membrane. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU. PU bumper protection.	39 → 48			844 g	





**Fast lacing**  
 • Time saving  
 PHOENIX S3 SRC  
 PHOCEA S3 SRC



**DUAL DENSITY PU OUTSOLE**  
 1- Flex zone  
 2- V STAB SYSTEM  
 3- Lateral ladder grips  
 4- Studded sole, SRC standards  
 • 1- Foot motion improved  
 • 2- Reinforced control of foot torsion  
 • 3- Secured stabilisation on ladder rungs  
 • 4- Good grip on all types of indoor and outdoor surfaces  
 PHOENIX S3 SRC  
 PHOCEA S3 SRC  
 AURIBEAU3 S1P SRC  
 PERTUIS3 S1P SRC

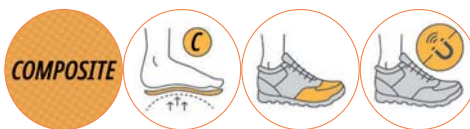


GARGAS II S1P SRC  
 GOULT II S1P SRC

**PHOENIX S3 SRC**



**PHOCEA S3 SRC**



PHOENIX S3 SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide mesh. Insock: Removable premolded - Polyamide on EVA. Outsole: Injected - PU bi-density. Non metallic footwear.	36 → 47	CE	EN ISO 20345 S3 SRC	590 g	x 5
PHOCEA S3 SRC						570 g	

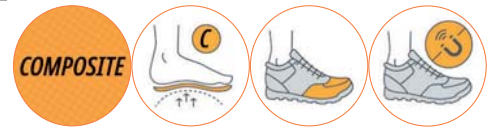
**Delta Plus provides protection at work from head to toe for both women and men**



### AURIBEAU3 S1P SRC



### PERTUIS3 S1P SRC



### GARGAS II S1P SRC



### GOULT II S1P SRC



AURIBEAU3 S1P SRC	Green-Black	Upper: Split suede leather and mesh. Lining: Polyester. Insock: Removable premolded - Polyamide on EVA. Outsole: Injected - Dual density PU. Non metallic footwear.	36 → 47	CE	EN ISO 20345 S1P SRC	640 g
PERTUIS3 S1P SRC						622 g
GARGAS II S1P SRC	Black	Upper: Pigmented split leather. Lining: Polyamide absorbing. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.	35 → 48	CE	EN ISO 20345 S1P SRC	644 g
GOULT II S1P SRC						636 g



**Heel shock absorber area**

- Optimised walking comfort
- Reduction of fatigue and risk of skeletal muscular disorders

GOBI S3 SRC  
ATACAMA S3 SRC  
TAKU S3 CI SRC



**Seam reinforcement with rivet fastening**

- Best rode resistance in outdoor environments

GOBI S3 SRC  
ATACAMA S3 SRC



**Quilted collar and tongue**

- Effective protection against rubble
- Comfort throughout the day

GOBI S3 SRC  
ATACAMA S3 SRC



**PU-coated split leather**

- Improved anti-shock durability of the rod

GOBI S3 SRC  
ATACAMA S3 SRC  
TAKU S3 CI SRC



**DUAL DENSITY PU OUTSOLE**

**1- Angular design of the studs and fluid drain channels**

**2- Lateral ladder grips**

- 1- Good grip on all types of surfaces
- 2- Secured stabilisation on ladder rungs

GOBI S3 SRC  
ATACAMA S3 SRC  
TAKU S3 CI SRC

**GOBI S3 SRC**

**Air Mesh 3D polyester lining**

- Increased breathability
- Optimal comfort

**Anti-puncture stainless steel insert**

- Protection adapted to perforation resistance requirements in construction



**ATACAMA S3 SRC**

**Bending fold at the back of the rod (1)**

- Comfort for the ankle in flexing phases

**Air Mesh 3D polyester lining**

- Increased breathability
- Optimal comfort

**Anti-puncture stainless steel insert**

- Protection adapted to perforation resistance requirements in construction



**TAKU S3 CI SRC**

**Safety boot specially designed for the cold (1)**

- Suitable for use in cold outdoor environments down to -30°C

**Grip handles (2)**

- Easy shoeing

**Anti-puncture stainless steel insert**

- Protection adapted to perforation resistance requirements in construction

**Felt insole**

- Better insulation against the cold



GOBI S3 SRC	Brown	Upper: Cow leather, water resistant treatment S3 and PU-coating suede split leather. Lining: Absorbent 3D mesh. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.	36 → 48	CE	EN ISO 20345 <b>S3 SRC</b>	670 g	x 5
ATACAMA S3 SRC					EN ISO 20345 <b>S3 SRC</b>	740 g	
TAKU S3 CI SRC					EN ISO 20345 <b>S3 CI SRC</b>	740 g	



**SHOCK ABSORBER**  
Dual density PU outsole

- Decreased propagation of shock waves

SANTANA S3 SRC  
CALYPSO S3 SRC  
MAESTRO S3 SRC



**Wide fitting (mondo 11)**

- Hard wearing

SANTANA S3 SRC  
CALYPSO S3 SRC  
MAESTRO S3 SRC



**Outsole with PU protection bumper**

- Reinforced protection of the forefoot

SANTANA S3 SRC  
CALYPSO S3 SRC  
MAESTRO S3 SRC



**Areas of integrated bending (PANOFLEX® system)**

- Less fatigue at the end of the day
- More comfortable walking

SANTANA S3 SRC  
CALYPSO S3 SRC  
MAESTRO S3 SRC



**DUAL DENSITY PU OUTSOLE**

- Hear wearing outsole with toe and heel grip
- Lateral ladder grips

- 1- Reinforced adhesion on loose ground
- 2- Secured stabilisation on ladder rungs

SANTANA S3 SRC  
CALYPSO S3 SRC  
MAESTRO S3 SRC

### SANTANA S3 SRC



### CALYPSO S3 SRC



### MAESTRO S3 SRC



SANTANA S3 SRC							720 g
CALYPSO S3 SRC	Black	Upper: Buffalo smooth leather, S3 water resistant treatment. Lining: Polyester. Insock: Removable premolded - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap. Non metallic footwear.	39 → 48	CE	EN ISO 20345 S3 CR SRC		856 g
MAESTRO S3 SRC							670 g





*Our goal is to meet the most extreme working conditions. These highly technical and functional shoes allow you to reach unequalled levels of performance.*

**Boris Dodin**, Foot Protection Product Expert

*TW402 S3 SRC*

*TW302 S3 SRC*

**This PU/ RUBBER NITRILE SOLE has been developed with:**

1- Areas of attachment, allowing secure stabilisation on the ladder rungs.

2- Large cleats for soft flooring, meeting SRC standards, for reinforced grip on all types of indoor and outdoor surfaces.



3- A rubber nitrile outsole that guarantees good resistance to abrasion and contact heat (HRO = 300°C for 1 minute).

Pre-moulded bumpers provide extra protection from the front and the back of the foot.

*TW402 S3 SRC*  
*TW302 S3 SRC*



**Delta Plus provides protection at work from head to toe for both women and men**





**Fast lacing**

- Time saving
- TW402 S3 SRC  
TW302 S3 SRC



**EVA insock preformed and removable**

- Reinforced ergonomics and comfort in foot movements
  - Easy drying
- TW402 S3 SRC  
TW302 S3 SRC



**PANOSHOCK® system**

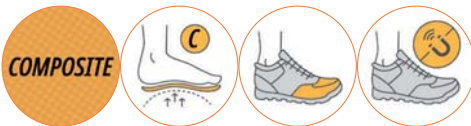
- Decreased propagation of shock waves
- TW402 S3 SRC  
TW302 S3 SRC



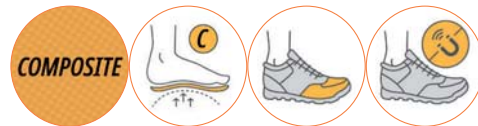
**Rear reinforcement**

- Stabilisation of the foot when walking
  - Reinforced protection on the rear of the shoe
- TW402 S3 SRC  
TW302 S3 SRC

**TW402 S3 SRC**



**TW302 S3 SRC**



TW402 S3 SRC	Black	Upper: Full grain leather, S3 water resistant treatment, with premolded front and back reinforcements. Lining: Polyamide absorbing. Insock: Removable premolded - Polyester on PU. Midsole: Cemented - PU with Panoshock® shock absorber. Outsole: Rubber Nitrile. Non metallic footwear.	39 → 48	EN ISO 20345 S3 HRO HI CI SRC	972 g	x 5
TW302 S3 SRC					894 g	



**Retro-reflective tapes**  
 ▶ Increased visibility for better safety

SAULT2 S3 SRC  
 MONTBRUN S3 SRC



**SHOCK ABSORBER**  
 Dual density PU outsole  
 ▶ Decreased propagation of shock waves

SAULT2 S3 SRC  
 MONTBRUN S3 SRC



**Outsole with PU protection bumper**  
 ▶ Reinforced protection of the forefoot

SAULT2 S3 SRC  
 MONTBRUN S3 SRC



**Areas of integrated bending (PANOFLEX® system)**

▶ Less fatigue at the end of the day

▶ More comfortable walking

SAULT2 S3 SRC  
 MONTBRUN S3 SRC

**SAULT2 S3 SRC**



**MONTBRUN S3 SRC**



SAULT2 S3 SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insock: Removable premolded - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 → 48	CE	EN ISO 20345 S3 SRC	736 g	x 5
MONTBRUN S3 SRC						702 g	

**Delta Plus provides protection at work from head to toe for both women and men**



**Wide fitting (mondo 11)**

- Hard wearing  
SAULT2 S3 SRC  
MONTBRUN S3 SRC



**DUAL DENSITY PU OUTSOLE**

- 1- Hard wearing outsole with toe and heel grip
- 2- Lateral ladder grips

- 1- Reinforced adhesion on loose ground
  - 2- Secured stabilisation on ladder rungs
- SAULT2 S3 SRC  
MONTBRUN S3 SRC



- JUMPER3 S3 SRC  
JET3 S3 SRC  
JUMPER3 S1P SRC  
JET3 S1P SRC  
JUMPER3 S1 SRC  
JET3 S1 SRC

**JUMPER3 S3 SRC**



**METAL**



**JET3 S3 SRC**



**METAL**



**JUMPER3 S1P SRC**



**METAL**



**JET3 S1P SRC**



**METAL**



**JUMPER3 S1 SRC**



**METAL**



**JET3 S1 SRC**



**METAL**



JUMPER3 S3 SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide mesh. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.	36 → 45	CE	EN ISO 20345 <b>S3 SRC</b>	582 g	x 10 x 5	
JET3 S3 SRC			46 → 48			570 g		
JUMPER3 S1P SRC		Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual-density PU.	36 → 45 46 → 47		EN ISO 20345 <b>S1P SRC</b>	598 g	x 10 x 5	
JET3 S1P SRC						678 g		
JUMPER3 S1 SRC						EN ISO 20345 <b>S1 SRC</b>		556 g
JET3 S1 SRC								490 g



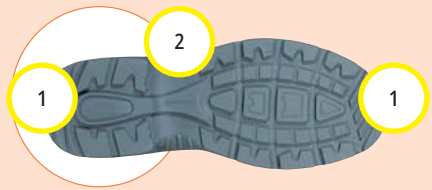




JUMPER3 S3 FUR HC SRC  
JUMPER3 S3 FUR SRC



SAMARA S3 SRC  
SAKHA S3 SRC



**DUAL DENSITY PU OUTSOLE**  
1- Hear wearing outsole with toe and heel grip  
2- Lateral ladder grips  
• 1- Reinforced adhesion on loose ground  
• 2- Secured stabilisation on ladder rungs  
CADEROUSSE S3 SRC

**JUMPER3 S3 FUR HC SRC**

**METAL**

**JUMPER3 S3 FUR SRC**

**METAL**

**SAMARA S3 SRC**

**METAL**

**SAKHA S3 SRC**

**METAL**

**CADEROUSSE S3 SRC**

**METAL**

- Retro-reflective tapes (1)**
  - Increased visibility for better safety
- SHOCK ABSORBER**
- Dual density PU outsole (2)**
  - Decreased propagation of shock waves
- Wide fitting (mondo 11) (3)**
  - Hard wearing
- Outsole with PU protection bumper (4)**
  - Reinforced protection of the forefoot
- Areas of integrated bending (PANOFLEX® system) (5)**
  - Less fatigue at the end of the day
  - More comfortable walking

Model	Color	Upper	Lining	Insole	Outsole	Weight	Dimensions	CE	Standard
JUMPER3 S3 FUR HC SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyester fur. Insole: Removable premolded - Felt. Outsole: Injected - Dual-density PU. • PU formula sole keeping its properties until -30°C				776 g	x 10 x 5	CE	EN ISO 20345 S3 CI SRC
JUMPER3 S3 FUR SRC						611 g			
SAKHA S3 SRC	Beige	Upper: Cowhide leather, water resistant treatment S3 with TPR heel protection. Lining: Acrylic fur. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Dual density PU with front PU reinforcement.				870 g	x 5	CE	EN ISO 20345 S3 CI SRC
SAMARA S3 SRC	Black	Upper: Full grain leather, S3 water resistant treatment. Lining: Polyester fur. Insock: Removable premolded - Felt. Outsole: Injected - Dual-density PU with bump cap.				882 g			
CADEROUSSE S3 SRC						39 → 48			





# LADIES & GENTLEMEN



## Elegance and Comfort

The solution for users looking for safety footwear with an elegant design, while ensuring a high level of safety for its wearer.

### LADIES

The ladies models are designed to respect the morphology of the female foot to ensure long-lasting comfort.



### GENTLEMEN

The Gentlemen models are made of high-quality materials such as full-grain leather to provide durable softness and resistance over time.





**Quilted collar**

- Greater freedom of movement

BRISTOL S3 SRC  
RICHMOND S1 SRC



**PU MONO-DENSITY SOLE**

- Good cushioning
- Abrasion resistance
- Certified SRC anti-slip resistant

BRISTOL S3 SRC  
RICHMOND S1 SRC



**PU MONO-DENSITY SOLE**

- High flexibility
- COMO S1P SRC  
SUMMER S1P SRC  
MIAMI S1P SRC

**BRISTOL S3 SRC**

**Polyamide lining and foam**

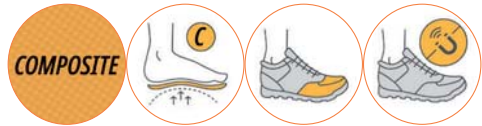
- Softer and more comfort

**Leather upper, S3 treated**

- Water repellent upper (Bristol S3 only)

**EVA insole**

- Reinforced plantar comfort throughout the day



**RICHMOND S1 SRC**

**Polyamide lining and foam**

- Softer and more comfort

**EVA insole**

- Reinforced plantar comfort throughout the day



BRISTOL S3 SRC		Upper: Derby light pigmented grain leather. Lining: Polyamide. Insock: Removable - EVA foam. Outsole: Mono density PU. Non metallic shoe.			EN ISO 20345 <b>S3 SRC</b>	494 g	
	Black		39 → 48	<b>CE</b>			x 10
RICHMOND S1 SRC		Upper: Oxford light pigmented grain leather. Brogue shoe. Lining: Polyamide. Insock: Removable - EVA foam. Outsole: Mono density PU. Non metallic shoe.			EN ISO 20345 <b>S1 SRC</b>	486 g	

**Delta Plus provides protection at work from head to toe for both women and men**

**COMO S1P SRC**



**SUMMER S1P SRC**



**MIAMI S1P SRC**



COMO S1P SRC	Black-Fushia	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insock: Removable premolded - Polyester on EVA. Outsole: Injected - Single density PU.	35 → 43	CE	EN ISO 20345 <b>S1P SRC</b>	508 g
SUMMER S1P SRC	Blue-Yellow Grey-Orange	Upper: Polyester and cotton. Insock: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.	35 → 48			406 g
MIAMI S1P SRC	Grey-Navy blue Black					442 g





# A complete range of protective boots

Dedicated to each environment



## Construction Industry

You are a most demanding worker. Do you face many risks, whatever the weather conditions, and you want uncompromising protective boots?

Our selection of Construction-Industry boots provide you with: a maximum level of protection, all-terrain stability as well as increased resistance to the most demanding hazards.

















	SAFETY - EN ISO 20345 : 2011					OCCUPATIONAL - EN ISO 20347 : 2012		
								
	ESKIMO SBHP	GOLD2 S5	IRON S5	NICKEL S5	BRONZE2 S5	LAUTARET3 OB	STONE OB	FREEZE
								
	SBH P A					OB E CI	OB	
	WR	S5	S5	S5	S5	SRC	SRA	
	SRC	SRC	SRC	SRC	SRA	SRC	SRA	
								
	27 cm	37 cm	38 cm	27 cm	37,5 cm	28 cm	39,5 cm	27 cm
	●	●	●	●	●	●		





# Food industry















The needs and requirements of this environment are very high. We have therefore developed a multidisciplinary range, which allows you to meet all the challenges you encounter on a daily basis: anti-slip certification, easy-to-disinfect boot and increased resistance to many aggressive agents, are the key components of our range of boots.

	SAFETY - EN ISO 20345 : 2011			OCCUPATIONAL - EN ISO 20347 : 2012			
	 KEMIS S4	 NITRIC SB	 ORGANO S4	 OXID O4	 HEALTHIC OB	 PHYSIOHC OB	 PHYSIOMC OB
							
	S4 CI	SB FO	S4	O4 CI	OB	OB	OB
	SRC	SRC	SRA	SRC	SRA	SRA	SRA
							
	37 cm	37 cm	38 cm	37 cm	9,5 cm	39,5 m	23,5 cm
	●		●	●			



# Agriculture - green spaces

From farms to aquaculture professions and even the maintenance of green spaces, all of our boots have been designed for you. A complete range, in "green" colors, with the right levels of protection, to make your daily task easier.

	SAFETY - EN ISO 20345 : 2011			OCCUPATIONAL - EN ISO 20347 : 2012				
	 OYSTER2 S5	 FISHER2 S5	 FIELD S5	 FROST OB	 LAND OB	 GARDEN OB	 GROUNDHC OB	 GROUNDMC OB
	S5	S5	S5	OB	OB	OB	OB	OB
	SRA	SRA	SRA	SRA	SRA	SRA	SRA	SRA
								
	130 cm	80 cm	38 cm	35 cm	40,5 cm	9,5 cm	39,5 cm	23,5 cm
	●	●	●	●	●			



*The GOLD2 boot has been designed to meet multiple needs in terms of protection, while offering unequalled comfort in the safety boot. Its PVC Flex, its removable insock, its internal breathability tunnel, as well as its «Easy Mud Evacuation» sole, make the GOLD2 a unique safety boot. The ideal combination of protection and comfort in one boot!*

**Samantha Boluda** - Product Manager Boots

**To support the most demanding workers, who want an uncompromising safety boot! Maximum protection, upscale comfort and increased breathability are the key words of the GOLD2.**

**The rear cleats «Easy Mud Evacuation» facilitate the evacuation of mud and ensure perfect stability on all soil types**



The combination of the «Breathability Tunnel» and the honeycomb insock helps promote air circulation and ventilation of the foot. Unparalleled breathability in a boot!



#### Increased protection of the malleoli

- Minimizes the risk of ankle injury

GOLD2 S5 SRC



GOLD2 S5 SRC



#### Textured upper grip

- Facilitates the grip for more ease when putting on

GOLD2 S5 SRC



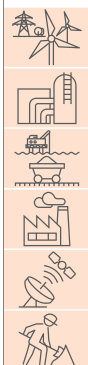
GOLD2 S5 SRC

## GOLD2 S5 SRC

### Reinforced fold line (1)

- Allows to better protect the foot from frontal impacts, and to facilitate flexion when walking

METAL



GOLD2 S5 SRC

Khaki-Black

Upper: bended - PVC Flex. Lining : Cotton jersey. Breathability tunnel. Protection of the malleoli. Protective toe cap: stainless steel. Anti-perforation mid sole: stainless steel. «Easy Mud Evacuation» sole: PVC - Nitrile.

38 → 48

CE

EN ISO 20345  
S5  
SRC

1.3 kg

x 6





**Increased protection of the malleoli**  
 • Minimizes the risk of ankle injury  
 IRON S5 SRC  
 BRONZE2 S5 SRA



IRON S5 SRC  
 BRONZE2 S5 SRA  
 ESKIMO SBHP SRC



**Textured upper grip**  
 • Facilitates the grip for more ease when putting on  
 IRON S5 SRC  
 NICKEL55 CI SRC



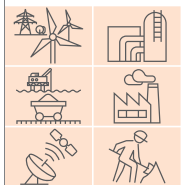
STONE OB SRA  
 LAUTARET 3



IRON S5 SRC  
 BRONZE2 S5 SRA  
 ESKIMO SBHP SRC  
 NICKEL55 CI SRC

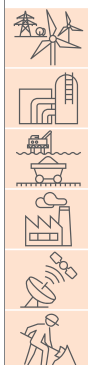
**IRON S5 SRC**

**Front and back protection toe bumper (1)**  
 • Increases foot protection for the most aggressive working environments  
**Reinforced fold line (2)**  
 • Allows to better protect the foot from frontal impacts, and to facilitate flexion when walking



**BRONZE2 S5 SRA**

**Reinforced fold line (1)**  
 • Allows to better protect the foot from frontal impacts, and to facilitate flexion when walking



**STONE OB SRA**



IRON S5 SRC	Navy blue-Red Khaki-Black Yellow-Black	Upper: PVC. Lining: Polyester. Protection of the malleoli. Front and back protection toe bumper. Rear removal lug. Protective toe cap: stainless steel. Anti-perforation mid sole: stainless steel. Sole: PVC - Nitrile.	38 → 48	CE	EN ISO 20345 <b>S5 SRC</b>	1.4 kg	x 6
BRONZE2 S5 SRA	Green-Black Yellow-Black Black	Upper: PVC. Lining : Polyester. Protection of the malleoli. Rear removal lug. Protective toe cap: stainless steel. Anti-perforation mid sole: stainless steel. Sole: PVC - Nitrile with large cleats.			EN ISO 20345 <b>S5 SRA</b>	1.2 kg	
STONE OB SRA	Black Green-Black	Upper: PVC. Lining : Polyester. Sole: PVC.			EN ISO 20347 <b>OB SRA</b>	812 g	

**Delta Plus provides protection at work from head to toe for both women and men**



**ESKIMO SBHP SRC**

**DELTA-TEX**  
**WATER PROOF**  
 by DELTAPLUS



Safety boot specially designed for the cold (1)

► Suitable for use in outdoor cold environments but also in cold rooms down to -30°C

Canadian WATERPROOF boot combining a pre-moulded PU pad and an impermeable membrane (2)

► Resistance to extreme cold and snow

► Moisture protection

Felt insole

► Better insulation against the cold



**NICKELS5 CI SRC**

Thick polyester fur (1)

► The lined interior provides ideal thermal insulation, protecting against harshest temperature environments

Gripping handles (2)

► To put easier the boots

Increased protection of the malleoli (3)

► Minimizes the risk of ankle injury



**LAUTARET 3**



**FREEZE**

Thick polyester fur (1)

► The lined interior provides ideal thermal insulation, protecting against harshest temperature environments



ESKIMO SBHP SRC		Canadian safety boot. Upper: PU and Polyester. Lining: SNOWTEX™ fur-lined and DELTA-TEX™ waterproof polyester membrane + fur-lined polyester collar. Insock: Removable premolded - Felt. Outsole: Injected - Dual density PU resistant to -30°C. Amagnetic boot.	38 → 48		EN ISO 20345 <b>SBH PA E FO CI WR SRC</b>	865 g x 5
NICKELS5 CI SRC	Black	Upper: PVC. Lining : Polyester furlined. Insock : insulating. Gripping handles. Protective toe cap: stainless steel. Anti-perforation mid sole: stainless steel. Sole: PVC - Nitrile.	39 → 46	CE	EN ISO 20345 <b>S5 CI SRC</b>	1.2 kg x 6
LAUTARET 3		Canadian fur-lined winter working boots. Lining: 100% polyester. Upper: PVC-coated fabric and polyamide water-repellent treatment. Outsole: Thermoplastic (keeps it's property until -30°C).	38 → 47		EN ISO 20347 <b>OB E CI SRC</b>	656 g
FREEZE		Upper: PVC. Lining: Brushed polyester fur. Sole: PVC.	38 → 48			586 g x 8



*The requirements in the food industry are numerous and very high. The KEMIS S4 CI SRC boot is a response to these needs and combines thermal insulation, the highest level of anti-slip -SRC- and boot without roughness, facilitating disinfection.*

**Samantha Boluda** - Product Manager Boots

**For work environments that require both easy disinfection of boots, protection against the cold and a highly non-slip sole: all of these requirements summarized in one product, the KEMIS S4 CI SRC.**



The combination of a completely smooth upper and an easily washable SRC sole, to guarantee rapid and optimal disinfection of the boots

The rear lug allows easy removal of the boot after a day's work.

The requirements in the food industry are numerous and very high. The KEMIS S4 CI SRC boot is a response to these needs and combines thermal insulation, the highest level of anti-slip -SRC- and boot without roughness, facilitating its disinfection.



**Rear lug**

• Allows easy removal of the boot after a day's work



**KEMIS S4 CI SRC**

«Cold Insulation» insulating felt insock (1)  
• Ideal for professions in refrigerated atmospheres



KEMIS S4 CI SRC	White-Blue	Upper: PVC. Lining: cotton jersey. Insock: Removable, washable and insulating. Rear removal lug. Protective toe cap: stainless steel. Sole: PVC - Nitrile.	35 → 47	CE	EN ISO 20345 S4 CI SRC	1.02 kg	x 6
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NITRIC SBFO SRC



**Rear lug**  
 ▶ Allows easy removal of the boot after a day's work  
 OXID O4 CI SRC



OXID O4 CI SRC  
 NITRIC SBFO SRC



04-OB

OXID O4 CI SRC  
 HEALTHIC OB SRA  
 PHYSIOHC OB SRA  
 PHYSIOMC OB SRA



S4-SB

NITRIC SBFO SRC  
 ORGANO S4 SRA

### OXID O4 CI SRC

«Cold Insulation» insulating felt insock (1)  
 ▶ Ideal for professions in refrigerated atmospheres  
 The combination of a completely smooth upper and an easily washable SRC sole  
 ▶ To guarantee rapid and optimal disinfection of the boots



### NITRIC SBFO SRC



### HEALTHIC OB SRA



OXID O4 CI SRC	White-Blue	Upper: PVC. Lining: cotton jersey. Insock: Removable, washable and insulating. Rear removal lug. Sole: PVC - Nitrile.	35 → 47	CE	EN ISO 20347 <b>O4 CI SRC</b>	946 g	x 8
NITRIC SBFO SRC	White-Blue Blue	Upper: PVC. Lining : Cotton jersey. Protection of the malleoli. Protective toe cap: stainless steel. Sole: PVC - Nitrile.	36 → 47		EN ISO 20345 <b>SB FO SRC</b>	1.13 kg	x 6
HEALTHIC OB SRA	White-Blue	Upper: PVC. Lining : Polyester. Sole: PVC.	35 → 47		EN ISO 20347 <b>OB SRA</b>	390 g	x 12

**Delta Plus provides protection at work from head to toe for both women and men**



**ORGANO S4 SRA**



**PHYSIOHC OB SRA**



**PHYSIOMC OB SRA**



ORGANO S4 SRA	White-Grey	Upper: PVC. Lining : Polyester. Sole: PVC - Nitrile.	37 → 47	CE	EN ISO 20345 <b>S4 SRA</b>	1.1 kg x 6
PHYSIOHC OB SRA		Upper: PVC. Lining : Polyester. Sole: PVC.	35 → 47		EN ISO 20347 <b>OB SRA</b>	1.8 kg x 8
PHYSIOMC OB SRA				600 g		

*We have chosen to focus on the comfort and durability of the weld, to allow our users to work more comfortably when partially immersed. The flexible PVC upper allows for greater ease of movement in water, while remaining 100% waterproof. In addition, the high frequency heat welding at the top of the boot ensures perfect and durable waterproofing of the waders.*

**Samantha Boluda** - Product Manager Boots

## How do you keep half your body dry when you are half submerged in water? With Fisher2 waders, combining optimal protection -S5 SRA - and complete waterproofing.



### 100% waterproof high frequency heat seal

- For perfect waterproofing and more durability



### Reinforced fold line

- Allows to better protect the foot from frontal impacts, and to facilitate flexion when walking

**Increased protection of the malleoli**

- Minimizes the risk of ankle injury

FISHER2 S5 SRA  
OYSTER2 S5 SRA



FISHER2 S5 SRA  
OYSTER2 S5 SRA



OYSTER2 S5 SRA

**FISHER2 S5 SRA****Nylon retaining straps**

- Allows to adjust and fix the waders to the belt

**METAL****OYSTER2 S5 SRA****Inside pocket**

- Nylon adjustable support braces

**METAL**

FISHER2  
S5 SRA

Khaki-Beige

Coated canvas: PVC, height: 80 cm. 100% waterproof high frequency heat seal. Lining: cotton jersey. Nylon retaining straps. Protection of the malleoli. Rear removal lug. Protective toe cap: stainless steel. Anti-perforation mid sole: stainless steel. Sole: PVC - Nitrile with large cleats.

37 → 47

CE

EN ISO 20345  
SS SRA

1.3 kg

x 4

OYSTER2  
S5 SRA

Coated canvas: PVC, height: 130 cm. 100% waterproof high frequency heat seal. Lining: cotton jersey. Nylon shoulder straps, brass eyelets and buttons. Inside pocket. Protection of the malleoli. Rear removal lug. Protective toe cap: stainless steel. Anti-perforation mid sole: stainless steel. Sole: PVC - Nitrile with large cleats.

3.2 kg



**Rear lug**  
• Allows easy removal of the boot after a day's work

LAND OB SRA  
FIELD S5 SRA



GROUNDHC OB SRA



04-0B  
LAND OB SRA  
FROST OB SRA  
GARDEN OB SRA  
GROUNDHC OB SRA  
GROUNDMC OB SRA



FIELD S5 SRA

**LAND OB SRA**

Specific bended upper design

• For maximum comfort: supports the natural course of the walk and limits friction



**FIELD S5 SRA**



**GARDEN OB SRA**



**FROST OB SRA**

Thick polyester fur (1)

• The lined interior provides ideal thermal insulation, protecting against harshest temperature environments

Lace-up collar (2)

• To adjust the top of the upper as needed



**GROUNDMC OB SRA**



**GROUNDHC OB SRA**



LAND OB SRA	Khaki-Beige	Upper: bended - PVC. Lining : Polyester. Sole: PVC - Nitrile.	39 → 46	CE	EN ISO 20347 <b>OB SRA</b>	950 g	x 8
FIELD S5 SRA		Upper: PVC. Lining : Polyester. Sole: PVC - Nitrile with large cleats.	37 → 47		EN ISO 20345 <b>S5 SRA</b>	1.36 kg	x 6
FROST OB SRA	Green-Black	Upper: PVC. Lining : Polyester furlined. Adjustable upper with drawstring. Sole: PVC.	36 → 47		EN ISO 20347 <b>OB SRA</b>	1.1 kg	x 8
GARDEN OB SRA	Khaki-Beige					396 g	x 12
GROUNDHC OB SRA	Green-Beige	Upper: PVC. Lining : Polyester. Sole: PVC.				810 g	x 8
GROUNDMC OB SRA						620 g	

**Delta Plus provides protection at work from head to toe for both women and men**



46500



Black-Grey Spare soles. Polyester on PU. 36 → 48 60 g x 100

45400



Black Spare soles. Polyamide. 36 → 48 60 g x 100

22180



Black Round polyamide laces. Length: 100 cm. One size 10 g x 500

LACET XL



Black-Grey Round polyamide laces. Length: 120 cm. One size 10 g x 500

PRATO



Khaki-Green  
Black-Grey

Antistatic and antibacterial socks.  
64% cotton / 17% polyamide / 16%  
Nostatex® / 3% Lycra®.  
Anti-stress soft edge.  
Lycra® stretch.  
Antishrinking treatment (Prewashed).

39-42  
→  
43-46 82 g x 100

CHAUSSETT



Champagne Acrylic fleeced socks for boots. One size 120 g x 50

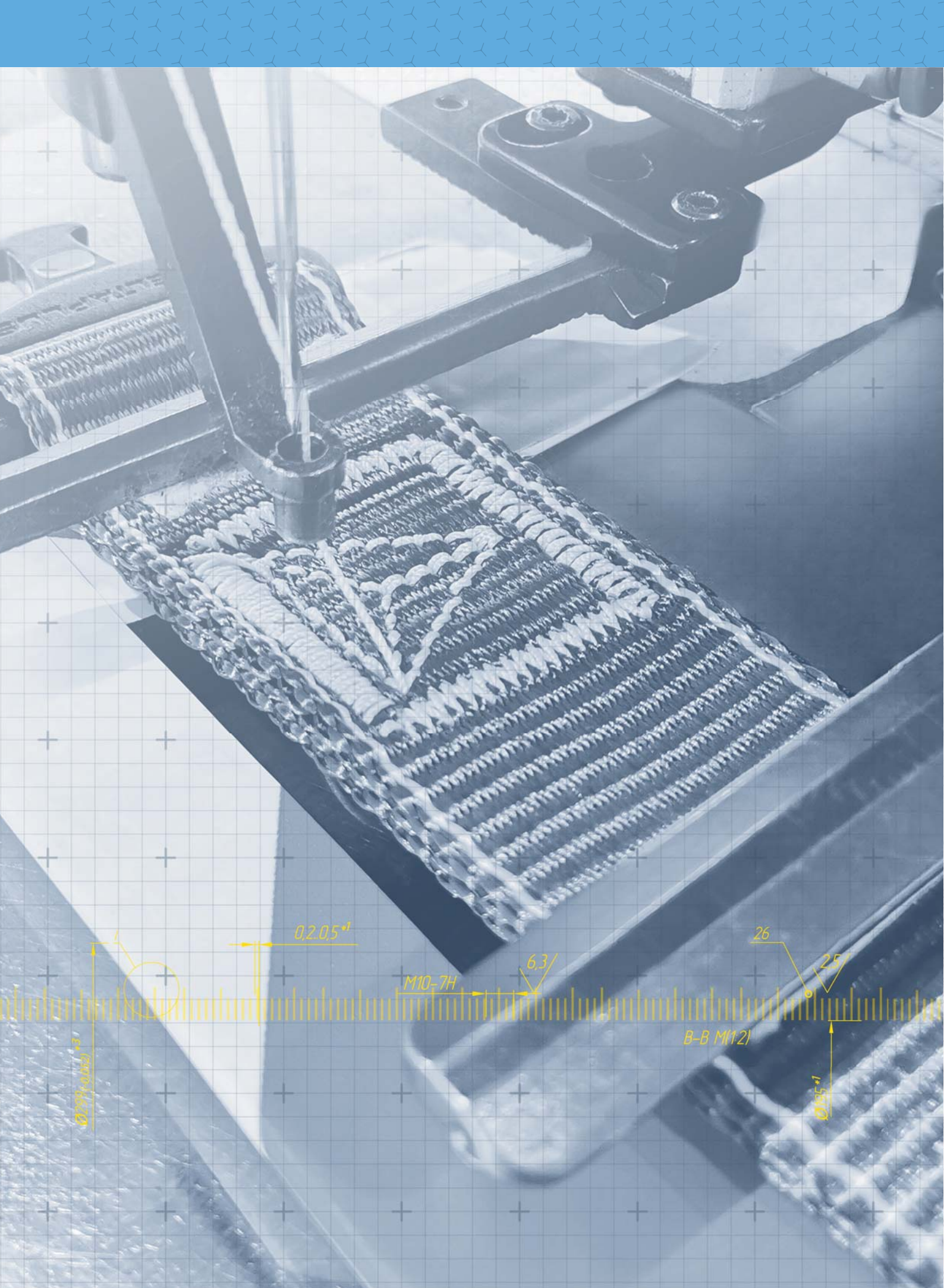
CHAUSSON



Grey

100% polyester Isothermic slipper.  
Rubber band ankle support - width  
22 mm.

38/39  
→  
46/47 46 g x 50



*Delta Plus provides protection at work from head to toe for both women and men*



# FALL PROTECTION



HELP WITH CHOICE

294

## BODY SUPPORT

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- Fall arrester and suspension harnesses 302

## ANCHORAGE - WORK POSITIONING

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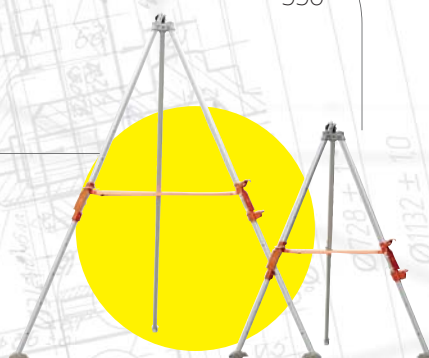


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## TECHNICAL INFORMATION

379-381





# Fall arrest

HARNESSES						
	<b>PREMIUM</b> <b>5</b> ATTACHMENT POINTS	<b>4</b> ATTACHMENT POINTS	<b>3</b> ATTACHMENT POINTS	<b>2</b> ATTACHMENT POINTS	<b>1</b> ATTACHMENT POINT EN 361 HARNESSES EN 358 RESTRAINT	
	<b>PREMIUM</b> 					
	<b>EVOLUTION</b> 					
	<b>ESSENTIAL</b> 					
	<b>ABSORBERS</b>  EN 355		<b>RETRACTABLES</b>  EN 360		<b>SLIDINGS</b>  EN 353-1 CABLE EN352-2 CORDE	
		<b>ANCHORAGES</b>  EN 795 A=FFIX B=MOBILE		<b>CONFINED</b>  EN 795 B=MOBILE LIFE LINE SPEEDline CABLEline		<b>CONNECTORS</b>  EN 362 <b>LANYARDS</b>  EN 354



## Positioning

2

ATTACHMENT  
POINTS



**EN 358**  
RESTRAINT

## Rope access work

6

ATTACHMENT  
POINTS



**EN 361**  
HARNESSES  
**EN 567**  
BLOCKERS

5

ATTACHMENT  
POINTS

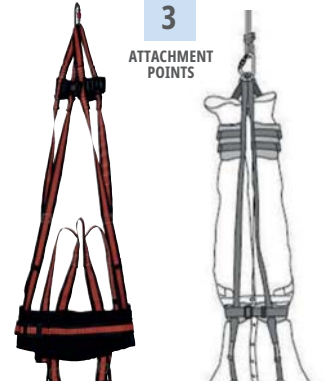


**EN 358**  
RESTRAINT  
**EN 12841**  
ROPE ACCESS WORK

## Rescue

3

ATTACHMENT  
POINTS



**EN 361**  
HARNESSES

**EN 1498-C**  
RESCUE



**EN 567**  
BLOCKERS

**EN 341-2-A**  
DESCENDERS

**EN 12841-C**  
ROPE ACCESS WORK



**EN 341-1-B**  
DESCENDERS

**EN 341-1-A**  
DESCENDERS

**EN 341-2-A**  
DESCENDERS

**EN 1496-B**  
RESCUE



**EN 358**  
RESTRAINT



**EN 1891**  
ROPES

**EN 12278**  
PULLEYS



**EN 1498-B**  
RESCUE WEBBINGS



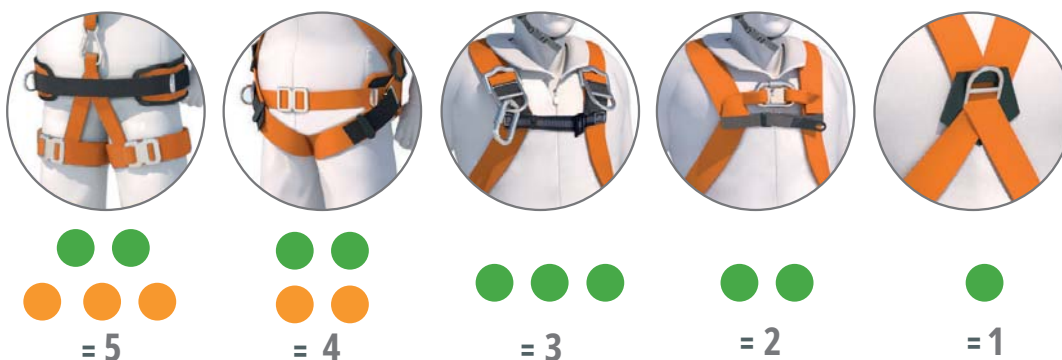
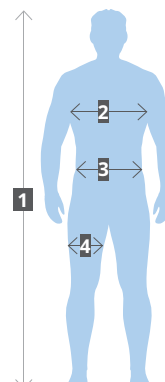


# Fall arrest

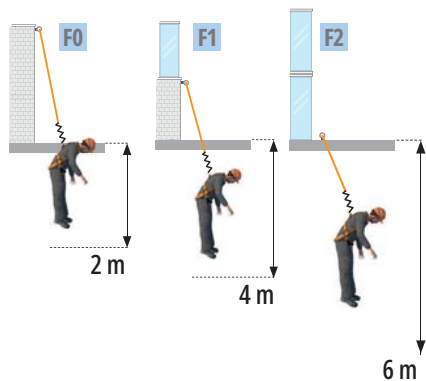
## HARNESSES



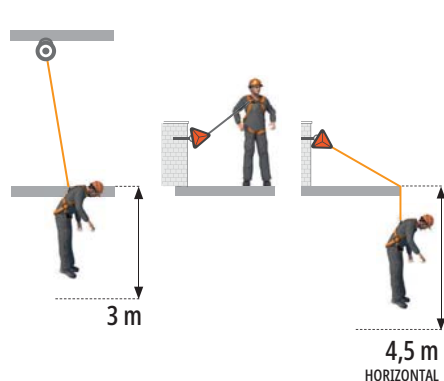
REF	SIZES	1	2
GT	S-M-L	<195 cm	<110 cm
XX	XL-XXL	>190 cm	>105 cm
		3	4
GT	S-M-L	<115 cm	<65 cm
XX	XL-XXL	>110 cm	>60 cm



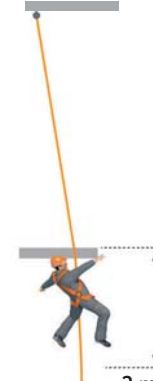
## ABSORBERS



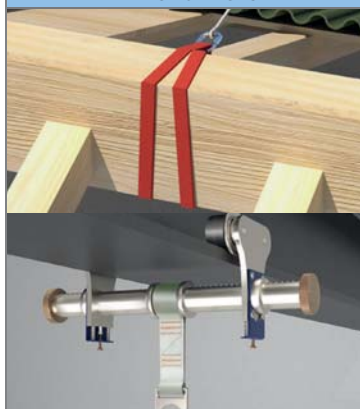
## RETRACTABLES



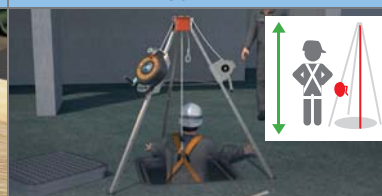
## SLIDINGS



## ANCHORAGES



## CONFINED



## LIFE LINE



## CONNECTORS



## LANYARDS



## Positioning



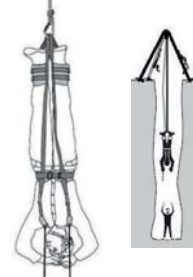
● ● = 2

## Rope access work

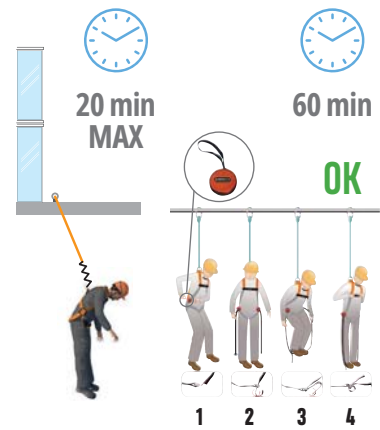
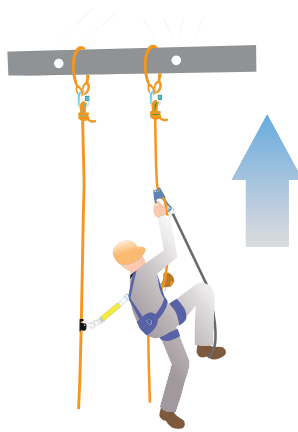


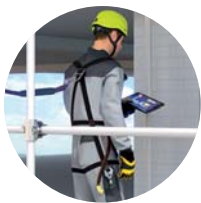
● ● ● ● = 6 +

## Rescue



● ● ● = 3

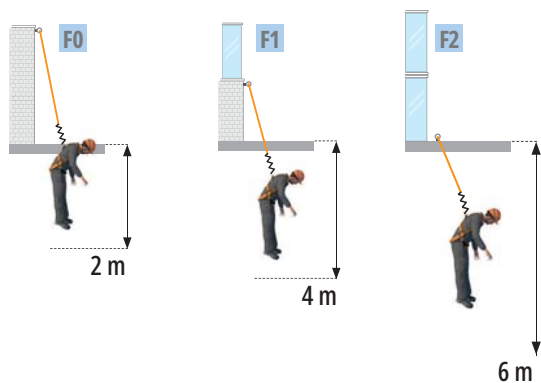




# Why choose your fall arrester?

## 1. In order to stop the fall :

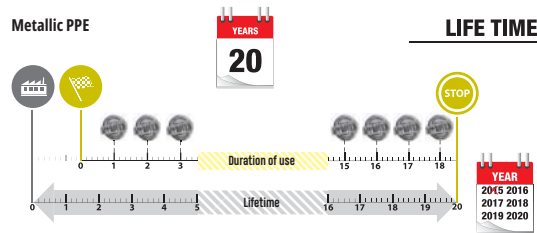
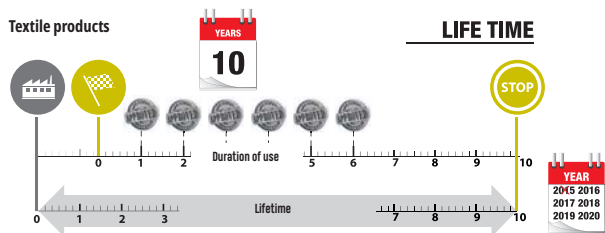
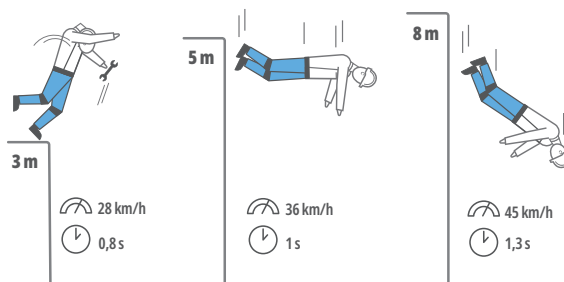
It is necessary to consider the space between the feet of user and the first encountered obstacle (called Vertical Clearance) but also consider where should be anchored my fall arrest system (called Fall Factor).



## 2. Limit the impact to the user

**6kN** : Maximum tolerance threshold for human body

**10kN** : Irreversible lesions, death



### INSTRUCTIONS FOR PERIODIC INSPECTIONS SHALL INCLUDE:

- A recommendation for the frequency of periodic inspections, taking into account factors such as regulation, the type of equipment, frequency of use, and environmental conditions. This recommendation shall include a clause stating that the periodic inspection should be conducted at least once every twelve months;
- A warning to emphasise that periodic inspections should only be carried out by a competent person in strict compliance with the manufacturer periodic inspection procedures



#### VISUAL INSPECTION

Harnesses, belts, lanyards, ropes, energy absorbers, self-retractable devices that cannot be dismantled (e.g. AN102), connectors, our kit components (except ELA-RA270), temporary anchors (tripod, LV201 ...)



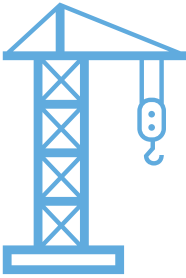














#### MECHANICAL INSPECTION

Self-retractable devices that can be dismantled, rescue equipment (e.g. TC013)

FALL ARREST	POSITIONING	FALL ARREST	FALL ARREST
<b>HARNESSES</b> 		<b>ABSORBERS</b> 	<b>ANCHORAGE</b> 
		<b>RETRACTABLES</b> 	
		<b>SLIDINGS</b> 	<b>CONNECTORS</b> 



# Elara kit

	ESSENTIAL	EVOLUTION		PREMIUM
	 <p>L-XXL 190</p>	 <p>L 280</p>	 <p>L 320</p>	 <p>L-XXL 390H</p>
	 <p>L-XXL 160</p>	 <p>L-XXL 140</p>	 <p>L 270</p>	 <p>L-XXL 340H</p>
	 <p>L-XXL 130</p>	 <p>L 150</p>	 <p>L-XXL 170</p>	 <p>L-XXL 350H</p>





# Safe, Easy, Clear Affordable, Innovative

We are proud to present  
our innovative identity card



For all our Fall Arrest Products (except the carabiners). Since mid-2015, in addition to the compulsory printed label, our products have an electronic microchip indicating:

- ▶ Product reference
- ▶ Serial number
- ▶ Manufacturing date

PRODUCT :	AN13006C
SERIAL :	D12.352.0028
DATES :	PROD. : 01/2012



Using an Android or Windows mobile phone having technology, any user can scan the tag ((N)) and download our free **"DELTA PLUS ID CARD"** APP from our Website.

## Using app on your smartphone



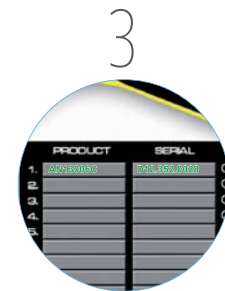
After flashing NFC tag, user can write/read:

- ▶ **The wearer's product name.**
- ▶ **The commissioning date of the PPE.**



The Official Service Center (SAV) will write:

- ▶ **The date of each annual control.**



Both user and controller can check anytime:

- ▶ **The status of product controls.**

A PPE DATABASE is included to check anytime all the inventoried products.



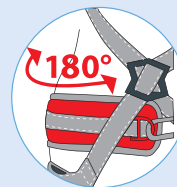
### Annual check reminder service

After creating all your products on the APP, you will receive an email 15 days before each compulsory annual control.

- ▶ A full access to a more complete PPE DATABASE is available on our website using the same login/password as on ID Card Application.
- ▶ ID Card App and Website databases are synchronized for using both tools together. It's up to you to use both or only one of them.



2 accessory attachment holders incorporated into the belt  
 • Anchorage carabiners, lanyards and tools  
 HAR44EL

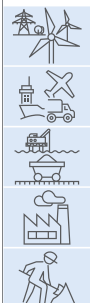


180° rotation  
 • Easy rotation of the basin  
 HAR44EL

**HAR44EL**

**DIELECTRIC**

• Insulator up to 20KV



↕	1	2	4	5	9	10
↔	6	7	8	9	11	12

**HAR42EL**

**DIELECTRIC**

• Insulator up to 20KV



↕	1	2	4	5	9
↔	6	7	8	9	11

HAR44EL	Dielectric harness with positioning belt. 2 fall arrester anchorage points (back - front). 3 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points for work positioning. Sponge back lining. Buckles with plastic coating. Material insulates to 20KV.	S/M/L XL/XXL	CE	EN361 100 kg	EN358	2 kg	x5
HAR42EL	Dielectric harness. 2 fall arrester anchorage points (back - front). 2 adjustable buckles. Buckles with plastic coating. Material insulates to 20KV.					922 g	





To optimise the progression of the user on his rope, we integrated a stopper on the harness, because it gives him a better stability.

David Naulin, Fall Protection Product Expert

## «Rope access» harness: Comfort and many features for rope access.



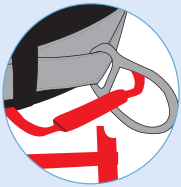
- 1- Automatic buckles  
Easy installation
- 2- Accessory attachment holders  
Anchorage carabiners, lanyards and tools
- 3- Park lanyards  
Ergonomic, limits the size of the lanyard when not in use
- 4- Tested at 150 kg  
No problem related to the weight of the tools transported or other
- 5- Thermocompressed padding for better leg comfort

The strap, developed by our R&D department and woven in our factories, allows to have a real flexibility and thus to accentuate the notion of comfort for the user.





# FALL ARRESTER AND SUSPENSION HARNESES



4 accessory attachment holders incorporated into the belt

- Anchorage carabiners, lanyards and tools

JAGUAR 2 HAR36R  
LYNX HAR35R



120° rotation

- Easy rotation of the basin

JAGUAR 2 HAR36R  
LYNX HAR35R



2 quick release buckles to adjust or remove the shoulder straps to get a shorts belt

- Can only be used as a harness for positioning work

LYNX HAR35R

## JAGUAR 2 HAR36R

2 park lanyards

- Ergonomic, limits the size of the lanyard when not in use

Tested at 150 kg

- No problem related to the weight of the tools transported or other



↕	1	2	3	4	9	10
↔	6	7	8	9	11	12

## LYNX HAR35R

2 quick release buckles to adjust or remove the shoulder straps to get a shorts belt 2 park lanyards

- Ergonomic, limits the size of the lanyard when not in use

Tested at 150 kg

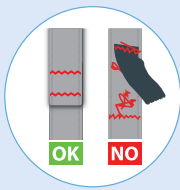
- No problem related to the weight of the tools transported or other



↕	1	2	3	4	9	10
↔	6	7	8	9	11	12

JAGUAR 2 HAR36R	Two colour harness for rope access work, with sit harness. 2 fall arrest anchorage points (dorsal-sternal). 9 adjustable buckles, including 2 automatic buckles and 5 irremovable buckles. Positioning and seat belt with thermocompressed back and thighs. 120° rotation. 2 work positioning anchorage points (lateral). 1 restraint anchorage point (back). 1 suspension point (ventral). 1 ventral blocker for rope access. Soft padding on shoulders and thigh straps.				2.7 kg	
LYNX HAR35R	Two colour harness for rope access work, with sit harness. 2 fall arrester anchorage points (back - front). 10 adjustment buckles, including 2 automatic buckles, 4 irremovable buckles, and 2 removable buckles to adjust or remove the shoulder straps to get only a sit harness (Can only be used as a harness for positioning work). Positioning and seat belt with thermocompressed back and thighs. 120° rotation. 2 work positioning anchorage points (lateral). 1 suspension point (ventral). 1 automatic carabiner. Soft padding on shoulders and thigh straps.	S M/L XL/XXL	CE	EN361 150kg	EN358	EN813 150kg
					2.5 kg	x5

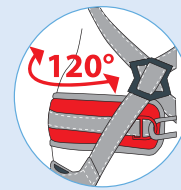




**Fall indicator**  
 • Easy visual verification  
 REVOLIN HAR35M  
 TIVANO HAR32M



**4 accessory attachment holders incorporated into the belt**  
 • Anchorage carabiners, lanyards and tools  
 REVOLIN HAR35M



**120° rotation**  
 • Easy rotation of the basin  
 REVOLIN HAR35M

**REVOLIN HAR35M**

2 park lanyards  
 • Ergonomic, limits the size of the lanyard when not in use  
 Tested at 150 kg  
 • No problem related to the weight of the tools transported or other



**TIVANO HAR32M**

2 park lanyards  
 • Ergonomic, limits the size of the lanyard when not in use  
 Tested at 150 kg  
 • No problem related to the weight of the tools transported or other



↕	1	2	3	4	9	10
↔	6	7	8	9	11	12



↕	1	2	3	4	5	9
↔	6	7	8	9	11	



REVOLIN HAR35M	Two colour harness with positioning belt. 2 fall arrester attachment points (back - front). 5 adjustment buckles, including 3 automatic buckles and 2 irremovable buckles. Positioning belt with thermocompressed back. 120° rotation. 2 work positioning anchorage points (lateral). 1 restraint anchorage point (back). Soft padding on shoulders.	S/M/L XL/XXL	CE	EN361 150kg	EN358	2 kg	x5
TIVANO HAR32M	Two colour harness. 2 fall arrester anchorage points (back - front). 5 adjustment buckles, including 3 automatic buckles and 2 irremovable buckles. Soft padding on shoulders and at the pelvis level.					1.4 kg	

# FALL ARRESTER AND SUSPENSION HARNESES

To facilitate the positioning of this harness, our R&D department worked on the architecture and the strap which is woven in our factories. This therefore allows the user to easily and quickly put on the harness.

David Naulin, Fall Protection Product Expert



## Intuitive and quick installation for this harness dedicated to all types of application.

### PUMA HAR25

2 accessory attachment holders incorporated into the belt (1)

► Anchorage carabiners, lanyards and tools

**Tested at 150 kg**

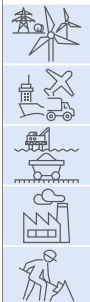
► No problem related to the weight of the tools transported or other

**2 park lanyards**

► Ergonomic, limits the size of the lanyard when not in use

**Belt, backrest and shorts with thermocompressed padding and 3D structure mesh**

► Breathability and comfort



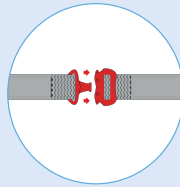
↕	1	2	3	4	9	10
↔	6	7	8	9	11	12



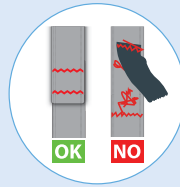
PUMA HAR25	Harness for rope access work. 2 fall arrest anchorage points (dorsal-sternal). Positioning belt with thermoformed back and shorts. 2 work positioning or restraint attachment points (lateral). 1 suspension point (ventral). 6 adjustable buckles. 2 park lanyards.	S/M/L XL/XXL	CE	EN361 150kg	EN358 150kg	EN813 150kg	2.1 kg	x5



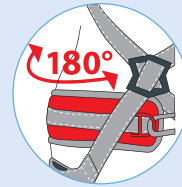
**2 accessory attachment holders incorporated into the belt**  
 ▶ Anchorage carabiners, lanyards and tools  
 HAR25HA  
 HAR24H



**Automatic buckles**  
 ▶ Quick and easy set-up and adjustment  
 HAR25HA



**Fall indicator**  
 ▶ Easy visual verification  
 HAR25HA  
 HAR24H  
 HAR23H  
 HAR22H



**180° rotation**  
 ▶ Easy rotation of the basin  
 EX220  
 HAR25HA  
 HAR24H

**HAR25HA**

Tested at 150 kg  
 ▶ No problem related to the weight of the tools transported or other



↕	1	2	4	5	9	10
↔	6	7	8	9	11	12

**HAR24H**

Tested at 150 kg  
 ▶ No problem related to the weight of the tools transported or other



↕	1	2	4	5	9	10
↔	6	7	8	9	11	12



HAR25HA	Harness with positioning belt. 2 fall arrest anchorage points (dorsal - sternal). 6 adjustable buckles including 4 automatic. Positioning belt with thermoformed. 2 lateral work positioning anchorage points. 1 extension lanyard.	S/M/L XL/XXL	CE	EN361 150 kg	EN358 150 kg	1.9 kg	x 5
HAR24H	Harness with positioning belt. 2 fall arrest anchorage points (back - front). 6 adjustable buckles. Positioning belt with thermoformed back closed. 2 lateral anchorage points for work positioning.					1.7 kg	



**FALL ARRESTER HARNESSES**

**HAR23H**

Tested at 150 kg

► No problem related to the weight of the tools transported or other



↕	1	2	4	5	9
↔	6	7	8	9	11

**HAR22H**

Tested at 150 kg

► No problem related to the weight of the tools transported or other



↕	1	2	4	5	9
↔	6	7	8	9	11

**EX220**



↕	10
↔	12



HAR23H	Harness with 3 fall arrest anchorage points (back - right front side - left front side). 5 adjustable buckles.			EN361 150 kg	1.4 kg	x5
HAR22H	Harness with 2 fall arrester anchorage points (back - front). 5 adjustable buckles.	S/M/L XL/XXL	CE	EN361 130 kg	1.2 kg	
EX220	Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.			EN358 150 kg	712 g	



**HAR14**



↓	1	2	4	5	9	10
↑	6	7	8	9	11	12

**HAR12**



↓	1	2	4	5	9
↑	6	7	8	9	11

**HAR11**



↓	1	2	4	5	9
↑	6	7	8	9	11

**HAR12GILNO**



↓	1	2	4	5	9
↑	6	7	8	9	11

**EX120**



↓	10
↑	12

HAR14	2 fall arrester anchorage point harness (back - front). 3 adjustable buckles. 2 adjustable lateral plates. Positioning belt with broad thermoformed back. Sponge lining. 2 anchorage points for work positioning.	S/M/L XL/XXL	CE	EN361 140 kg	EN358 140 kg	1.1 kg	
HAR12	2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable lateral plates.					730 g	
HAR11	1 fall arrester anchorage point harness (back). 2 adjustable buckles. 2 adjustable lateral plates.				EN361 140 kg		624 g
HAR12GILNO	Harness with work vest not removable: Harness (Ref. HAR12). Vest: 65% polyester 35% cotton. Polyester Mesh lining. Zip closure. 4 pockets including 1 phone pocket. Adjustable size by zip.						1.1 kg
EX120	Positioning belt with thermoformed back. 2 lateral anchorage points for work positioning. 1 adjustment loop. Sponge back lining.	One size		EN358 140 kg		400 g	

### EX030200

Non-inverting device

• Easy installation of the slider in the right direction

Opening with one hand

• Ergonomics and intuitiveness for opening the product

Fall indicator

• Easy visual verification

### EX030400



### EX118

Recommended accessory for the proper use of this product : 1 connector AM002



### EX021



EX030200	Lanyard tensiometer equipped with a rope and 1 AM010 carabiner. The positioning device allows adjustment of the distance between the operator (with work positioning belt) and the structure. Lanyard: Braided rope Ø 10.5 mm with manufactured ends. (See AN066 description too)	0,20 → 2 m	CE	EN358	998 g	x 5
EX030400	Lanyard tensiometer equipped with a rope and 1 AM010 carabiner. The positioning device allows adjustment of the distance between the operator (with work positioning belt) and the structure. Lanyard: Braided rope Ø 10.5 mm with manufactured ends. (See AN066 description too)	0,20 → 4 m			1.2 kg	
EX118200A	Adjustable work positioning lanyard via stainless steel tensiometer. Adjustable length. Stranded rope Ø 14 mm	0,20 → 2 m			872 g	
EX118400A	equipped with a wear indicator. Thimble loop. Splice protection. Protective sheath. 1 hook.	0,20 → 4 m				
EX021	Adjustable work positioning lanyard via reducer. Adjustable length. Stranded rope Ø 12 mm. Protective sheath on the splices.	1,10 → 2 m			306 g	x 15



**HARVESGI**



↕	1	2	4	9
↔	6	7	8	11

Vest. Zip fastening. 4 pockets including 1 phone pocket. Adjustable size by zip. High visibility: Class 1 - Silver colour - Shoulder-belt assembly.

One size



EN ISO 20471



0.47 kg x 10

**CLASS 1**

**LV102050**



↕	2	3	4	13
↔	6	7	8	12

Extension strap in high tenacity polyester with D-ring. Width 45 mm. End loop with shrinkage and steel anchor D.

0,50 m



EN795

**TYPE B**

300 g

x 15

EN354

**HAPAD2**

Breathability



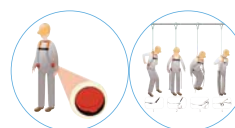
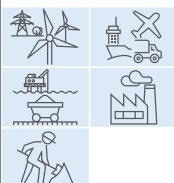
Comfort pad for back.

One size

90 g

x 10

**HA203FS**



Pair of straps enabling blood circulation in the legs after a fall while waiting for help. Adjustable for any type of harness by positioning on the side straps. Ease and speed of implementation. Textile carrying case.

One size

62 g

x 25

**HA200**



Tool holder. Extended length: 1 m. Maximum working load: 4 kg.

One size

60 g

x 20

**HA204**



Retractable tool holder. Extended length: 1.1 m. Maximum working load: 0.5 kg.

One size

0.25 kg

x 20

**HA205**



Wristband tool holder adjustable with Velcro. Maximum working load: 1 kg.

One size

0.05 kg

x 20

**HA206**



Connection device for tools. Can be used with HA205. Extended length: 0.52 m. Maximum working load: 0.9 kg.

One size

0.05 kg

x 20

**HA207**



Double connections tool holder. Extended length: 1.35 m. Maximum working load: 2.2 kg.

One size

0.05 kg

x 20

**HA208**

100% product recycled



Neck warmer in polyester.

One size

31 g

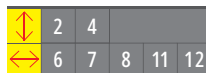
x 20



### ELARA340H



### ELARA350H



ELARA340H	INDUSTRY 6 M - ready for use fall arrest kit: Harness with 3 fall arrester anchorage points (back- right front side - left front side). 5 adjustable buckles (Ref. HAR23H). Self retractable fall arrester with polyester webbing 25 mm. ABS protection. Swivel with fall indicator. 1 carabiner AM002 (Ref AN13006C). Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D (ref. LV102100). Comfort pad for back (Ref. HAPAD). 1 tool holder (Ref. HA200). 1 carabiner AM002.			EN360	EN362	EN795 <b>TYPE B</b>	4.1 kg	x 5		
ELARA350H	SERVICES - ready for use fall arrest kit: Harness with positioning belt. 2 fall arrest anchorage points (back - front). 6 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro. 180° rotation. 2 lateral anchorage points for work positioning (ref. HAR24H). Fall arrest sliding on anchorage line stranded rope Ø 14 mm, opening type, equipped with automatic locking, non-inverting device, energy absorber with fall indicator (ref. AN065). Anchorage line stranded rope Ø 14 mm (ref. AN30010). Adjustable work positioning lanyard via reducer. Adjustable length. Stranded rope Ø 12 mm. Protective sheath on the splices (ref. EX021). Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D (ref. LV102100). 1 tool holder (ref. HA200). 2 carabiners AM002.	S/M/L XL/XXL	CE	EN361	EN353-2	EN358	EN362	EN795 <b>TYPE B</b>	5.2 kg	x 3



**ELARA390H**



↕	4	
↔	8	11

**ELARA320**

Storage bag



↕	4	
↔	8	11 12



ELARA390H	CONSTRUCTION - ready for use fall arrest kit: Harness with 2 fall arrest anchorage points (back - front), 5 adjustable buckles (Ref. HAR22H). Fall arrest with energy absorber elastic strap. Thimble loops. Equipped with 1 AM002 carabiner + 1 AM022 hook (Ref. AN235200CD). 1 tool holder (Ref. HA200). 1 carabiner AM002.	S/M/L XL/XXL		EN362	2.5 kg	
ELARA320	POSITIONNING & SCAFFOLDING - ready for use fall arrest kit: 2 fall arrester anchorage point harness (back - front). 3 adjustable buckles. 2 adjustable side plates. Positioning belt (Ref. HAR14). Adjustable work positioning lanyard via reducer. Length of 1.1 to 2 m. Stranded rope Ø 12 mm (Ref. EX021). Fall arrester with energy absorber in double stranded rope (Y) Ø 12mm. Length 2 m. 1 AM002 carabiner and 2 AM022 hooks (Ref. AN211200CDD). 2 carabiner AM002.	S/M/L	CE	EN355 EN361 EN358 EN362	3.5 kg	x 5

## ELARA280

Storage bag



↕	1	4	9
↔	8	9	12

## ELARA270



↕	1	2	5
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ELARA280	SCAFFOLDING - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Fall arrester with energy absorber in double stranded rope (Y) Ø 12mm. Length 2 m. 1 AM002 carabiner and 2 AM022 hooks (Ref. AN211200CDD)		EN355 EN361 EN362	2.5 kg x 5
ELARA270	VERTICAL 10 M - Ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Self retractable fall arrester with steel strap. Length 10 m. ABS case. 1 automatic swivel connector and fall indicator AM016 (Ref. AN12010T). Lanyard and anchorage point in tubular strap, length 2 m (Ref. L0030200). 2 connectors AM002.	S/M/L	CE EN354 EN361 EN360 EN362 EN795 <b>TYPE B</b>	9.1 kg x 1



**ELARA170**

Storage bag



↕	2		
↔	6	7	11

**ELARA150**

Storage bag



↕	2		
↔	6	7	11



ELARA170	ROOF - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm, length 20 m. (Ref. AN063/20). 2 connectors AM002.	S/M/L XL/XXL	CE	EN353-2	EN361	EN362	3.4 kg	x5
ELARA150	ROOF - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm, length 10 m (Ref. AN063/10). 2 connectors AM002.	S/M/L					2.4 kg	



### ELARA140

Storage bag



### ELARA190

Storage bag



ELARA140	VERTICAL 2.50 M - Fall arrester kit ready for use: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 connector AM002 (Ref. AN102). 1 connector AM002.	S/M/L XL/XXL	CE	EN360	EN361	1.9 kg
ELARA190	SCAFFOLDING - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Fall arrest with energy absorber with lanyard strap, length 2 m, equipped with 1 connector AM002 and 1 AM022 hook (Ref. AN203200CD).			EN355	EN361	1.8 kg
				EN362		x5



One of our bestsellers, essential for work at height.

**David Naulin**, Fall Protection Product Expert

# The ready-to-use kit that adapts to all types of work at height.



1- Lateral plates  
Easy and optimal adjustment



2- Storage bag

### ELARA160V2

Storage bag



### ELARA130V2

RESTRAINT KIT  
Storage bag



ELARA160V2	CLASSIC - Ready for use fall arrester kit: 1 fall arrester anchorage point harness (back) with energy absorbing lanyard fall arrester integrated, not removable, in polyester webbing, length 2 m. 2 adjustment buckles. 2 adjustment side plates. 1 connector AM002. 1 storage bag.	S/M/L XL/XXL	EN355 EN362	1 kg
ELARA130V2	RESTRAINT - Ready for use kit: 1 fall arrester anchorage point harness (back). 2 adjustment buckles. 2 adjustable lateral plates (Ref. HAR11). Lanyard and anchorage point in tubular strap. 2 sewn loops. Width 25 mm. Length 1.50 m (Ref. L0030150). 2 connectors AM002.	CE	EN361 EN354 EN362 CLASS B EN795 TYPE B	x5 1.12 kg



**AN245200PRR**

DIELECTRIC

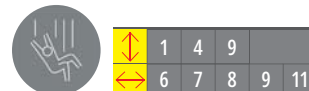
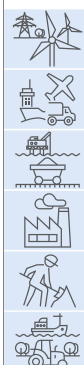
► Insulator up to 30KV



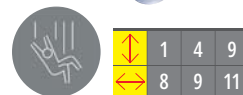
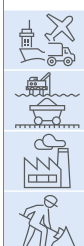
**AN235200PR**

DIELECTRIC

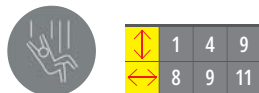
► Insulator up to 30KV



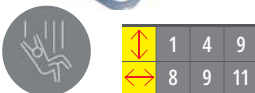
**AN245200ADD**



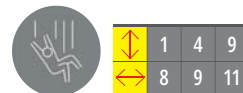
**AN235200AD**



**AN240ADD**



**AN230AD**



AN245200PRR	Dielectric fall arrest with energy dissipater in double elastic strap (Y). Thimble loops. Equipped with 1 carabiner AM010D + 2 hooks AM022D. Material insulates to 30kV.	1,40 → 2 m	x2 AM022D	CE	EN355	1.9 kg	x5	
AN235200PR	Dielectric fall arrest with energy dissipater in elastic strap. Thimble loops. Equipped with 1 carabiner AM010D + 1 hook AM022D. Material insulates to 30kV.		x1 AM010D			x1 AM022D		1.2 kg
AN245200ADD	Fall arrester with energy absorber in double elastic strap (Y). Thimble loops. Equipped with 1 hook AM010 + 2 hooks AM022.		x2 AM022			1.67 kg		
AN235200AD	Fall arrester with energy absorber in elastic strap. Thimble loops. Equipped with 1 hook AM010 + 1 hook AM022.		x1 AM010			x1 AM022		1.07 kg
AN240ADD	Fall arrester with extensible energy absorber in double woven webbing (Y), with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 Automatic hook lock in steel. Eye hook. Opening 16 mm. R > 23 kN (AM010). 2 Automatic lock hooks in galvanized steel, large opening 55 mm (AM022).		x1 AM002			x2 AM022		1.9 kg
AN230AD	Fall arrester with extensible energy absorber in woven webbing with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 Automatic hook lock in steel. Eye hook. Opening 16 mm. R > 23 kN (AM010). 1 Automatic lock hook in galvanized steel, large opening 55 mm (AM022).		x1 AM010			x1 AM022		1.1 kg



**SPIRAL AN218S200ADD**

Edge tested



↕	1	4	9
↔	8	9	11

**SPIRAL AN208S200AD**

Edge tested



↕	1	4	9
↔	8	9	

**AN218R2ADD**



↕	4	9
↔	8	9 11

**AN208R2AD**



↕	4	9
↔	8	9 11

SPIRAL AN218S200ADD	Fall arrester with energy absorber in double braided rope (Y) Ø 10.5 mm with shrink tubing to compress the lanyard. Thimble loops.	2 m	x2 AM022	1.97 kg	EN355 <b>HORIZONTAL CERTIFICATION</b>
SPIRAL AN208S200AD	Fall arrester with energy absorber in braided rope Ø 10.5 mm with shrink tubing to compress the lanyard. Thimble loops.		x1 AM022		
AN218R2ADD	Fall arrester with energy absorber in double braided rope Ø 12 mm (Y), adjustable by means of two gear rings on the rope.	1,50 → 2 m	x1 AM010	1.97 kg	EN355
AN208R2AD	Fall arrester with energy absorber in simple braided rope Ø 12 mm, adjustable by means of a gear ring on the rope.		x2 AM022		
			x1 AM022		



**AN203200ZZ**



↕	1	4
↔	8	11

**AN203100ZZ**



↕	1	4
↔	8	11

**AN203200ZD**



↕	1	4
↔	8	11

**AN213200ZZZ**



↕	1	4	9
↔	8	9	11

**AN213200ZDD**



↕	1	4	9
↔	8	9	11

**AN213100ZDD**



↕	1	4	9
↔	8	9	11



AN203200ZZ		2 m	CE	EN355	668 g	x 5
AN203100ZZ	Fall arrester with energy absorber in lanyard webbing. Thimble loops.	1 m			600 g	
AN203200ZD					1 kg	
AN213200ZZZ		2 m			1.3 kg	
AN213200ZDD	Fall arrester with energy absorber in double lanyard webbing (Y). Thimble loops.				1.6 kg	
AN213100ZDD		1 m			1.3 kg	

### PROTECTOR TETRA AN150

Fall indicator (1)

► Easy visual verification

2 integrated carrying handles

► Easy to transport and set-up

**High strength ABS casing**

► High impact resistance

**Tested at 150 kg**

► No problem related to the weight of the tools transported or other



### PROTECTOR TETRA AN140

Fall indicator (1)

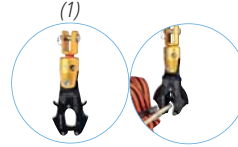
► Easy visual verification

2 integrated carrying handles

► Easy to transport and set-up

**High strength ABS casing**

► High impact resistance



PROTECTOR TETRA AN15015T	Self retractable fall arrester with galvanised steel cable with integrated energy absorber. ABS case. Fall indicator. Inertia locking system.	15 m	x 1	CE	EN360 <b>150 kg</b>	6.5 kg	x 1													
PROTECTOR TETRA AN15015F			x 1																	
PROTECTOR TETRA AN15010T		10 m	x 1																	
PROTECTOR TETRA AN15010F			x 1																	
PROTECTOR TETRA AN15006T		6 m	x 1																	
PROTECTOR TETRA AN15006F			x 1																	
PROTECTOR TETRA AN14008T		Self retractable fall arrester with webbing with energy absorber. ABS case. Fall indicator. Inertia locking system.	8 m									x 1	EN360 <b>HORIZONTAL CERTIFICATION</b> <b>100 kg</b>	5.4 kg						
PROTECTOR TETRA AN14008F												x 1								
PROTECTOR TETRA AN14006T			6 m									x 1								
PROTECTOR TETRA AN14006F												x 1								



**PROTECTOR EXTRA LARGE AN190**

2 integrated carrying handles

• Easy to transport and set-up

Fall indicator (1)

• Easy visual verification

IP66 waterproof stainless steel cable

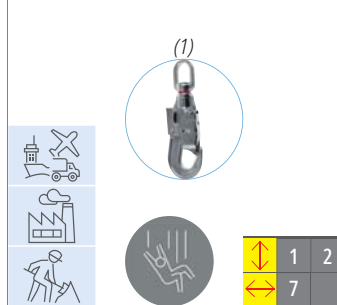
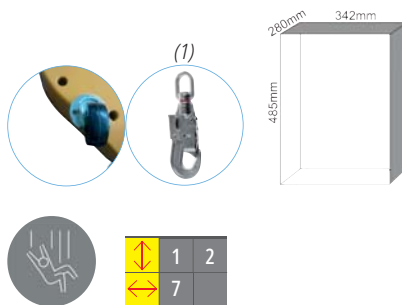
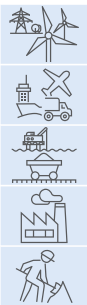
• Resistance in aggressive environments



**PROTECTOR LARGE AN180**

Fall indicator (1)

• Easy visual verification



PROTECTOR EXTRA LARGE AN19040T	Self retractable fall arrester with Ø 4,8 mm steel cable with integrated energy absorber. ABS case. Fall indicator. Inertia locking system.	40 m	x 1 AM016	CE	EN360	21.1 kg
PROTECTOR EXTRA LARGE AN19060T		60 m			30.5 kg	
PROTECTOR LARGE AN18020T	20 m	EN360			11.5 kg	
PROTECTOR LARGE AN18030T	30 m	<b>150kg</b>			12.35 kg	
						x 1

**Delta Plus provides protection at work from head to toe for both women and men**



Thanks to its patented system, intuitive and secure use of the fall arrest and rescue modes of the product: connected handle, rescue mode activated; removed handle, fall arrest mode activated.

David Naulin, Fall Protection Product Expert



# Intuitive system dedicated to the recovery of people in confined spaces.

## PROTECTOR ELEVATOR TR018

### Fall indicator (1)

- ▶ Easy visual verification

### Integrated carrying handle (2)

- ▶ Easy to transport and set-up

### Tested at 150 kg

- ▶ No problem related to the weight of the tools transported or other

### Brake system patented

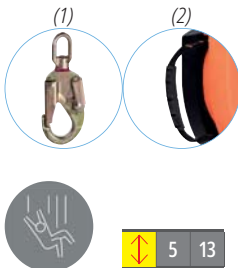
- ▶ Increased energy absorption performance

### IN-OUT intuitive system of the rescue winch patented

- ▶ Separate and simplified use of the fall arrest (OUT) and rescue (IN) functions

### Waterproof product

- ▶ Resistance in aggressive environments



PROTECTOR ELEVATOR TR01830U	Self retractable fall arrester in stainless steel cable, Ø 5 mm. Rescue winch function with removable handle. ABS housing. Inertia locking system. Energy absorber. 1 automatic swivel connector with fall indicator, opening 21 mm.	30 m	x 1 U connector	CE	EN360 150 kg	EN1496 CLASS A 150 kg	14.5 kg
PROTECTOR ELEVATOR TR01820U		20 m	x 1 U connector				13.9 kg

**MICROBLOC AN106****Horizontal use**

- Ideal for work in any direction

**Use in Factor 2**

- Security at any anchor point

**Tested at 140 kg**

- No problem related to the weight of the tools transported or other



↕	1	4	9
↔	8	9	



MICROBLOC AN106	Self retractable fall arrester with 19.5 mm webbing with energy absorber. Polyamide housing. 1 Swivel with fall indicator. 1 removable connector. 1 aluminium hook, 51 mm-opening.	1,8 m	CE	EN360 140kg	RfU PPE-R/11.060 <b>HORIZONTAL CERTIFICATION</b>	Rfu CNB/P/11.085 <b>F2</b>	1.46 kg	x 5
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## MAXIBLOC AN100

### Lightweight (1)

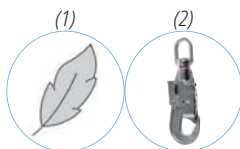
• Easy to transport and set-up

### Fall indicator (2)

• Easy visual verification

### Tested at 150 kg

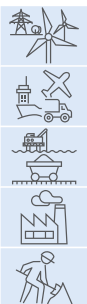
• No problem related to the weight of the tools transported or other



MAXIBLOC AN10006T			6 m			2.8 kg		
MAXIBLOC AN10010T2	Self retractable fall arrester with Ø 4 mm galvanised steel cable with integrated energy absorber. ABS case. Fall indicator.		10 m	x1 AM016	CE	EN360 150 kg	x 1	
MAXIBLOC AN10015T			15 m					4.5 kg

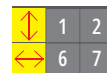
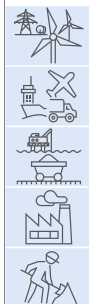


**MINIBLOC AN102**



**MEDBLOC AN13006C2**

- Fall indicator (1)
- Easy visual verification
- Light and compact: 1.6 kg (2)**
- Easy to transport and set-up
- Tested at 128 kg**
- No problem related to the weight of the tools transported or other



MINIBLOC AN102	Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 carabiner AM002.	2,50 m	x 1 AM002	EN360 <b>150 kg</b>	1.1 kg	
MEDBLOC AN13006C2	Self retractable fall arrester with polyester webbing 25 mm. ABS protection. Swivel with fall indicator. 1 carabiner AM016. Horizontal use tested.	6 m	x 1 AM016	EN360 <b>128 kg</b>	RfU PPE-R/ 11.060 <b>128 kg</b> <b>HORIZONTAL CERTIFICATION</b>	x 5

**Delta Plus provides protection at work from head to toe for both women and men**





### PROTECTOR LOAD AN517 - AN518

LOAD SELF RETRACTING FALL ARREST

High strength ABS casing

▸ High impact resistance

Integrated energy dissipater

▸ Structure protected from the forces generated by the fall

2 integrated carrying handles

▸ Easy to transport and set-up



### PROTECTOR LOAD AN530

LOAD SELF RETRACTING FALL ARREST

Integrated energy dissipater

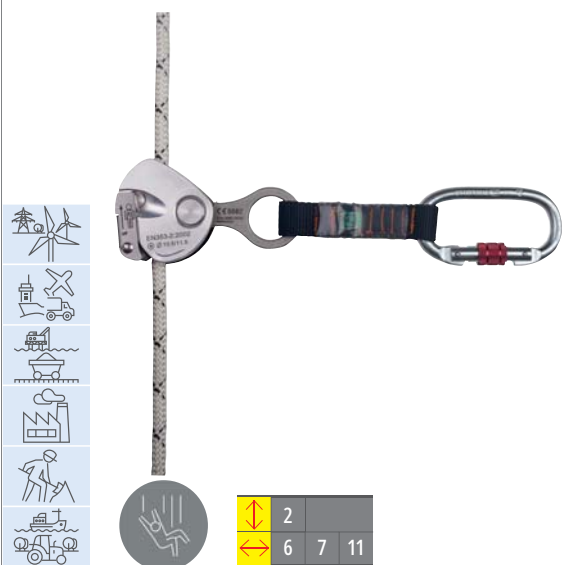
▸ Structure protected from the forces generated by the fall



PROTECTOR LOAD AN517	Load fall arrester in galvanized cable Ø 4 mm to secure all moving loads under 250 kg. High resistance ABS case.	10 m	CE	2006/42/EEC	5.1 kg
PROTECTOR LOAD AN518		15 m			5.9 kg
PROTECTOR LOAD AN530	Load fall arrester in galvanized cable Ø 6 mm to secure all moving loads under 500 kg. Steel case.	12 m			11.6 kg



**ASDRISS2 AN068**



**CAMELEON AN066A**

Fall indicator and non-inverting device

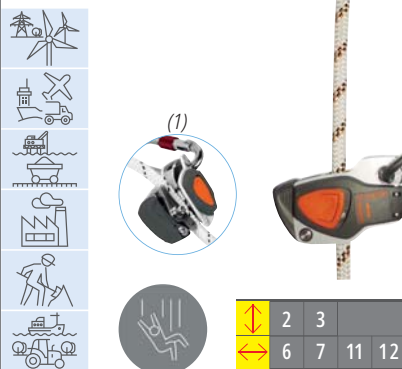
• Easy visual verification

Extension carabiner

• Better user mobility

Opening with one hand (1)

• Ergonomic and simple to use



**CAMELEON AN066**



**AN410 - AN420 - AN430 - AN401**



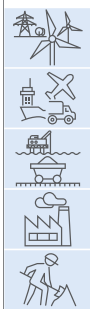
ASDRISS2 AN068	Fall arrester sliding on anchorage line stranded rope Ø 10.5 mm (rope sold separately). Opening type fall arrester equipped with automatic locking and energy absorber. 1 carabiner.						548 g
CAMELEON AN066A	3 multi function products in 1: 1- Sliding fall arrester on braided rope anchorage line ø 10,5 - 11mm equipped with an extension tab with energy absorber and an AM002 carabiner. 2- Stopper on rope: The rope's adjusting device used in the safety bracket (type A) accompanies the user during his changes of position and locks under the action of a static or dynamic load. 3- Stopper on rope: The ascension device on its work support, locks under the action of a load in one direction and slides freely in the opposite direction (type B) (see EX030 description too).	One size				EN358	706 g
CAMELEON AN066	3 multi function products in 1: 1- Sliding fall arrester on braided rope anchorage line ø 10,5 - 11mm + 1 AM002. 2- Stopper on rope: The rope's adjusting device used in the safety bracket (type A) accompanies the user during his changes of position and locks under the action of a static or dynamic load. 3- Stopper on rope: The ascension device on its work support, locks under the action of a load in one direction and slides freely in the opposite direction (type B) (see EX030 description too).					EN12841 TYPE A TYPE B	300 g
AN410	Anchorage line in braided rope Ø 10.5 mm for CAMELEON® and ASDRISS2.	10 m					1.4 kg
AN420	1 loop sewn thimble. Equipped with an AN006 counterweight and an AM002 connector.	20 m					2.1 kg
AN430		30 m					2.9 kg
AN401	Anchorage line on twisted rope Ø 10.5 mm for CAMELEON® and ASDRISS2.	per meter					x 1

### ASCORD AN065

Non-inverting device

• Easy installation of the slider in the right direction

Energy dissipater with fall indicator



↕	2
↔	6 7 11

### FENNEC AN06310 - AN06320 - AN06330

Recommended accessory for the proper use of this product

: 1 connector AM002



↕	2
↔	6 7 11

### AN30010 - AN30020 - AN30030



ASCORD AN065	Fall arrester sliding on anchorage line stranded rope Ø 14 mm (rope sold separately). Opening type fall arrester equipped with automatic locking, non-inverting device, energy absorber with fall indicator. 1 carabiner AM002.	One size	x1 AM002	764 g	x5
FENNEC AN06310	Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm. Wear indicator. 1 loop spliced on high end.	10 m	CE	1.3 kg	x10
FENNEC AN06320	Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm. Wear indicator. 1 loop spliced on high end.	20 m		2.3 kg	x5
FENNEC AN06330	Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm. Wear indicator. 1 loop spliced on high end.	30 m		3.4 kg	
AN30010	Anchorage line stranded rope Ø 14 mm for ASCORD®. End spliced with thimble loop. 1 carabiner AM002.	10 m	x1 AM002	1.6 kg	x10
AN30020	Anchorage line twisted rope Ø 14 mm for ASCORD®. End spliced with thimble loop. 1 carabiner AM002.	20 m		3 kg	x5
AN30030	Anchorage line twisted rope Ø 14 mm for ASCORD®. End spliced with thimble loop. 1 carabiner AM002.	30 m		4.1 kg	



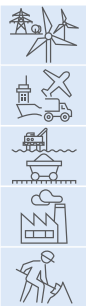
**ASCAB AN071**

Stainless steel

• Suitable for any type of environment

**Non-inverting device**

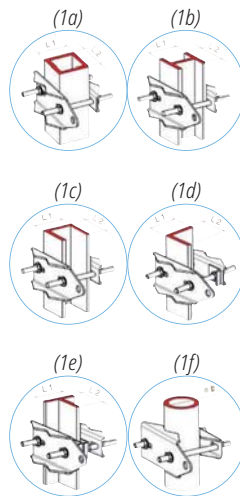
• Easy installation of the slider in the right direction



**AN801 - AN802**

Universal mounting system (1)

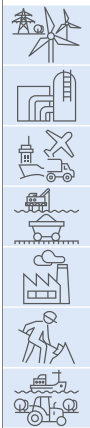
• Adaptable to any type of structure (IPN, tubular, rectangular ...)



ASCAB AN071	Sliding opening fall arrester on anchorage line in cable Ø 8 mm with self-locking, non-inverter device, extension tab with energy absorber. 1 carabiner AM002.	One size	CE	EN353-1	900 g x 5
ASCAB AN025	Length (per meter) of anchorage line cable for ASCAB.	per meter			0.25 kg x 1
ASCAB AN024	Up finish of the anchorage line cable for ASCAB in stainless steel. 1 thimble sleeve loop. 1 carabiner AM002.	1 m			
AN801	Top attachment (EN795-A), lower attachment and tensioner system in stainless steel with universal anchorage.	One size		EN795 <b>TYPE A</b> <b>(AN801UNIT)</b>	4.2 kg x 6
AN802	Intermediary attachment in stainless steel with universal anchorage. Recommended at least every 8 m.				1.3 kg x 12



**LV106**



↕	2	3	4	13
↔	6	7	8	12

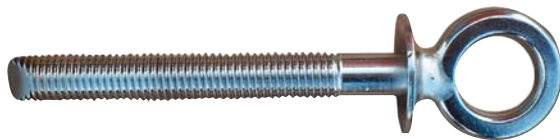
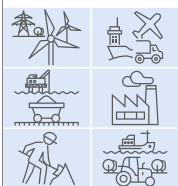
**CAIMAN LV135**



↔	6	8	12
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**LV105**

To seal or to screw



↕	2	3	4	13
↔	6	7	8	12

**DAYAK LV120G**



↔	6	8	12
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**LV100**

Quick installation

• Easy installation of the anchor point



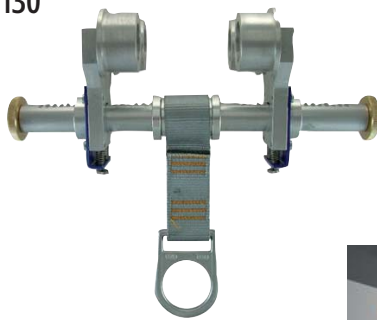
↕	2	3	4	13
↔	6	7	8	12



LV106	Swivel anchorage point in stainless steel, for vertical or horizontal installation (ceiling).	One size		EN795 <b>TYPE A</b>	100 g	x 10
CAIMAN LV135	Anchorage for concrete block. Adjustable length from 80 cm to 120 cm.	Adjustable	CE	EN795 <b>TYPE B</b>	TS16415 2	12.9 kg x 1
LV105	Anchorage with stainless steel eye Ø 12 mm. Overall length 140 mm. Rod length (under flange) 100 mm. Thread length 80 mm.	One size		EN795 <b>TYPE A</b>	174 g	x 10
DAYAK LV120G	Transportable anchorage point, galvanized steel, for door frame or window of 63 to 123 cm. Adjustable with clamping screw.	Adjustable	CE	EN795 <b>TYPE B</b>	TS16415 2	7 kg x 1
LV100	Stainless steel anchorage mounting plate with screws Ø 12 mm.	One size		EN795 <b>TYPE A</b>	46 g	x 10



**IPN LV130**



↕	2	3	13
↔	7		



**AM007**

Studied for structures with sharp corners



↕	2	3	4	13
↔	6	7	8	12

**LV102100 - LV102150**



↕	2	3	4	13
↔	6	7	8	12



**LV102050**



↕	2	3	4	13
↔	6	7	8	12



**L0030200 - L0030150 - L0030100**

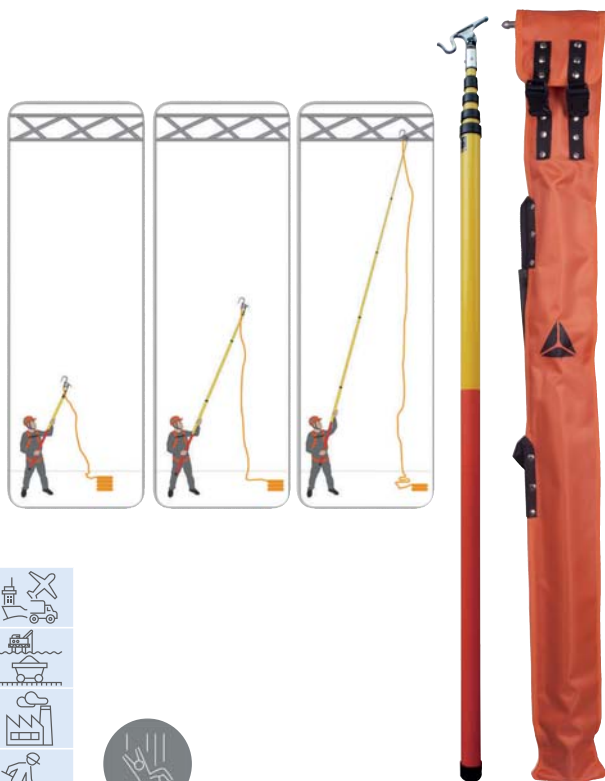


↕	2	3	4	13
↔	6	7	8	12

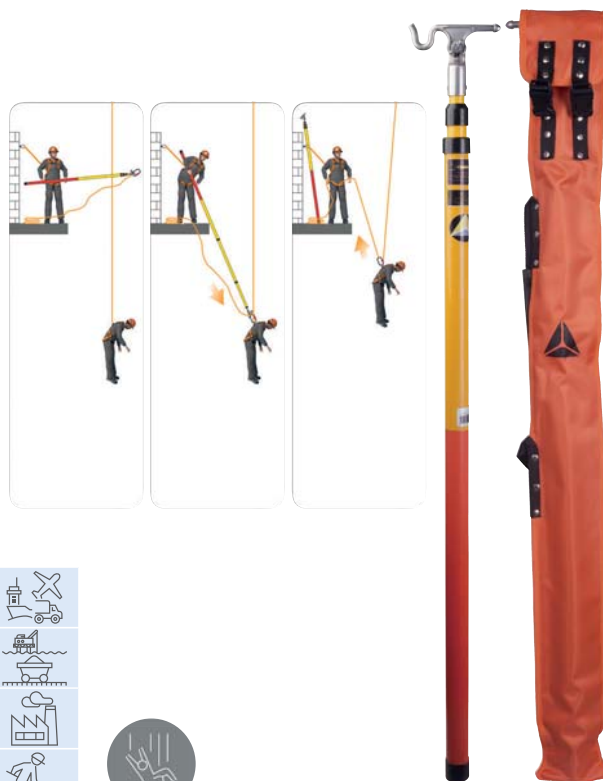


IPN LV130	A transportable interim anchorage device with aluminium alloy wheels. It can be attached to beams of width 76 to 255 mm.	Adjustable	EN795 TYPE B	4 kg	x 4
AM007	Sling anchor in galvanized steel cable Ø 8 mm. Protective sheath. 2 thimble ferrule loops.	1 m		600 g	x 5
LV102150	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1,50 m		258 g	x 1
LV102100	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1 m		222 g	x 10
LV102050	Extension strap in high tenacity polyester with D-ring. Width 45 mm. End loop with shrinkage and steel anchor D.	0,50 m		300 g	x 15
L0030150	Lanyard and anchorage point in tubular strap. 2 sewn loops. Width 25 mm.	1,50 m	EN354	187 g	x 15
L0030200		2 m		218 g	
L0030100		1 m		70 g	

**LV400**



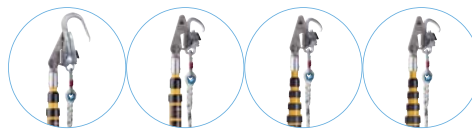
**LV403**



**LV401**



**LV402**



LV400	Telescopic rod with 5 sections. Closed length 2 m. Open Length 8 m. Material insulates to 30kV.	Adjustable			5 kg	x 1
LV403	Telescopic rod with 3 sections. Closed length 1,2 m. Open Length 3 m. Material insulates to 30kV.				4 kg	x 10
LV401	Automatic lock hook in aluminium with double opening action. Opening 90 mm R> 23kN.	One size	CE	EN795 TYPE B	EN362 CLASS A	1.1 kg x 1
LV402	Adapter for connector, for use with AM022 or AM030 (sold separately). Usable on LV400 and LV403 rods. Particularly suitable for rescuing upwards or downwards.				362 g	x 10





# Safe, Clear



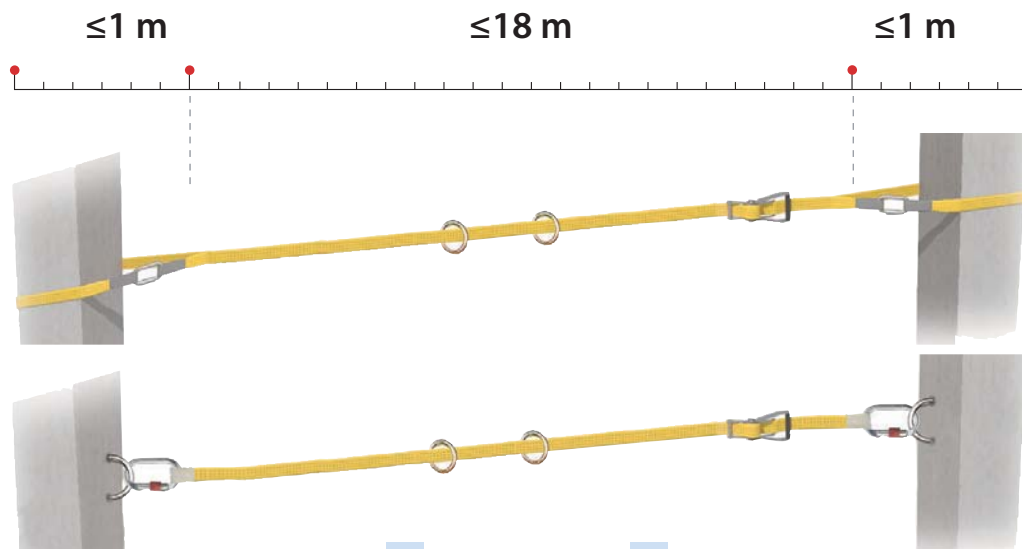
**SPEEDline**

↔					
↕	6	7	8	11	12

Description	LV201 Single span cable lifeline
Certification	EN795:2012 Type B + C (Hybrid)
Maximum users	CEN/TS 16415:2013
Weight	3,8 kg
Material	Sangle
Length	20 m in total, 18 m usable
Anchorage	On starting and ending points
Slider	

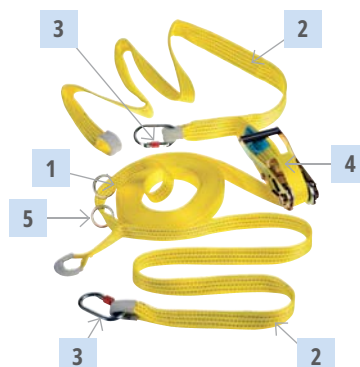
**Removable**

## COMPONENTS / INSTALLATION



Kit consisting of:

- 1 18 m Strap
- 2 2 x Anchorage strap (2 m)
- 3 2 x AM002
- 4 Tensioner
- 5 2 x Anchorage O-rings
- 6 Bag for storage







# Safe, Clear



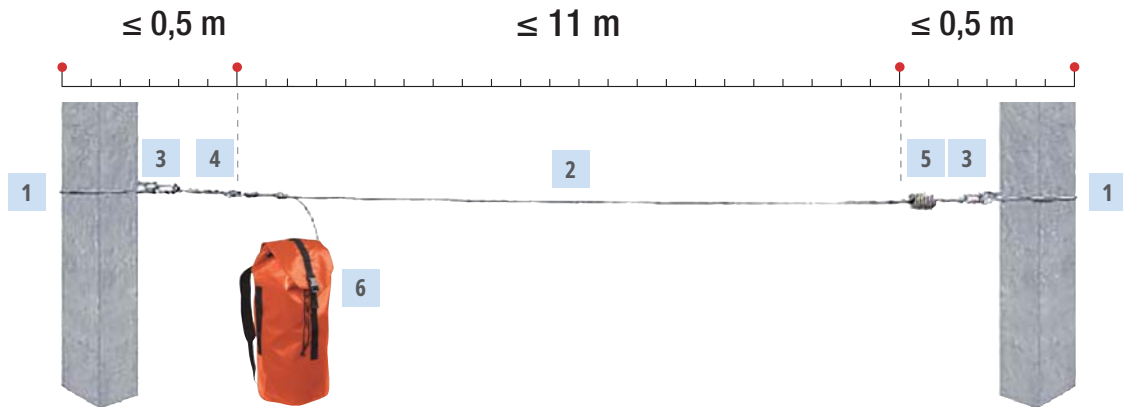
## CABLEline



Description	LV301 Single span cable lifeline
Certification	EN795:2012 Type B + C (Hybrid)
Maximum users	CEN/TS 16415:2013
Weight	6,4 kg
Material	Inox
Length	12 m in total, 11 m usable
Anchorage	On starting and ending points
Slider	



### COMPONENTS / INSTALLATION



2 x AM007 (1m) <b>1</b>		SLING ANCHOR IN GALVANIZED STEEL CABLE Ø 8 MM.	TENSIONER <b>4</b>		TENSIONER
11m LV040 Ø 8 mm <b>2</b>		CABLE	ABSORBER <b>5</b>		ENERGY ABSORBER
2 x AM002 <b>3</b>		SSCREW LOCK CARABINERS IN GALVANIZED STEEL. OPENING 17 MM. R > 23 KN.	TC008 <b>6</b>		BAG FOR STORAGE



**LO147150CDD**



Double lanyard in braided rope Ø 10.5 mm. 3 thimble loops ends.	1,50 m	AM002 x1	AM022 x2	CE	EN354	1.4 kg	x 5
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**LO147150**



Double lanyard in braided rope Ø 10.5 mm. 3 thimble loops ends.	1,50 m	CE	EN354	264 g	x 15
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**LO047150AD**



Lanyard in braided rope Ø 10.5 mm. 2 thimble loops ends.	1,50 m	AM010 x1	AM022 x1	CE	EN354	802 g	x 5
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**LO047100 - LO047150 - LO045200**



LO047100	Lanyard in braided rope Ø 10.5 mm. 2 thimble loops ends.	1 m	CE	EN354	116 g	x 15
LO047150		1,50 m			150 g	
LO045200		2 m			188 g	

**LO007150CD**



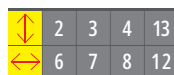
Lanyard in stranded rope Ø 12 mm. 2 thimble loops.	1,50 m	AM002 x1	AM022 x1	CE	EN354	850 g	x 5
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**LO007100 - LO007150 - LO005200**



LO007100	Lanyard in stranded rope Ø 12 mm. 2 thimble loops.	1 m	CE	EN354	154 g	x 15
LO007150		1,50 m			198 g	
LO005200		2 m			260 g	

**LO030100 - LO030150 - LO030200**



LO030100	Lanyard and anchorage point in tubular strap. 2 sewn loops. Width 25 mm.	1 m	CE	EN795 TYPE B	EN354	70 g	x 15
LO030150		1,50 m				187 g	
LO030200		2 m				218 g	

**AM027**



**AM030**



Automatic lock karabiner in light alloy. Large opening 58 mm. Sliding ring. Eye hook opening with latch.

One size



EN362  
CLASS  
A/T

240 g x 20

Automatic lock hook in aluminium alloy. Opening 25 mm.

One size

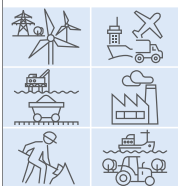


EN362  
CLASS  
A/T

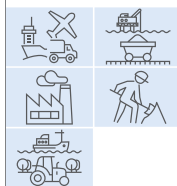
EN12275  
CLASS  
K/T

130 g x 20

**AM023**



**AM009**



Triple-action connector with automatic lock in aluminium. Opening 20 mm. R > 22 kN.

One size



EN362  
CLASS  
B

EN12275  
CLASS  
B

88 g x 20

Quick docking in stainless steel. Large aperture 100 mm. Eye hook. R > 23 kN.

One size



EN362  
CLASS  
A/T

380 g x 20

**AM022X2**



**AM025X2**



Set of 2 automatic hooks lock in galvanized steel. Large opening 51 mm. Eye hook. R > 23 kN.

One size



EN362  
CLASS  
A

1 kg x 10

Set of 2 automatic lock carabiners in light alloy. Opening 22 mm. Ring 1/4 turn. R > 25 kN.

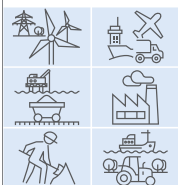
One size



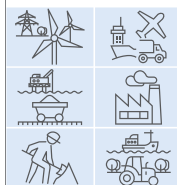
EN362  
CLASS  
B

180 g x 10

**AM002X5**



**AM018**



Set of 5 screw lock carabiners in galvanized steel. Opening 16 mm. R > 23 kN.

One size



EN362  
CLASS  
B

802 g x 4

Karabiner with 1/4 turn automatic lock in steel. Opening 17 mm. R > 25 kN.

One size



EN362  
CLASS  
B

200 g x 20



<p><b>TC001</b></p>     		<p><b>TC002</b></p>   					
<p>Ventral opening blocker type in aluminium alloy. Works on braided rope <math>\varnothing</math> 8 to 13 mm.</p>	<p>One size</p>	<p>CE EN567</p>	<p>160 g x 10</p>	<p>Right hand ascension handle in aluminium alloy. Works on braided rope <math>\varnothing</math> 8 to 13 mm.</p>	<p>One size</p>	<p>CE EN567</p>	<p>240 g x 10</p>
<p><b>TC003</b></p>     		<p><b>TC012</b></p>   					
<p>Left hand ascension handle in aluminium alloy. Works on braided rope <math>\varnothing</math> 8 to 13 mm.</p>	<p>One size</p>	<p>CE EN567</p>	<p>240 g x 10</p>	<p>Mono stirrup adjustable strap 25 mm from 90 to 120 cm. Pedal ascent. To pair with TC002 or TC003.</p>	<p>Adjustable</p>	<p>200 g x 10</p>	
<p><b>SAFECORD TC007</b></p>    		<p><b>DESCORD TC006</b></p>    					
<p>Locking device suitable for descent and ascent, with mechanical traction systems.</p>	<p>One size</p>	<p>CE EN12841 TYPE C EN341 TYPE 2 CLASS A</p>	<p>360 g x 50</p>	<p>Self locking descender with double security (anti-panic system) in aluminium. Intended for works on braided rope <math>\varnothing</math> 9 à 12 mm.</p>	<p>One size</p>	<p>CE EN12841 TYPE C EN341 CLASS 2A</p>	<p>360 g x 50</p>
<p><b>TC004</b></p>    		<p><b>TC044</b></p>   					
<p>Figure of eight in aluminium alloy. Works on braided rope <math>\varnothing</math> 9 to 12 mm.</p>	<p>One size</p>	<p>130 g x 20</p>		<p>Safety figure of eight in aluminium alloy. Works on braided rope <math>\varnothing</math> 9 to 16 mm.</p>	<p>One size</p>	<p>260 g x 20</p>	



TC005



3



TC015



3



Oscillating pulley flanges in aluminium alloy. Intended for works on braided rope less than  $\varnothing$  16 mm.

One size



EN12278  
30 kN

250 g x 10

Double pulley with oscillating flanges in aluminium alloy for braided rope less than  $\varnothing$  16 mm.

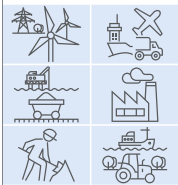
One size



EN12278  
30 kN

430 g x 10

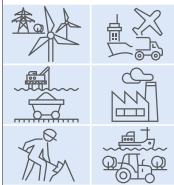
TC016



13



TC025



13



Mini pulley in aluminium alloy for braided rope less than  $\varnothing$  13 mm and cable less than  $\varnothing$  12 mm.

One size



EN12278  
22 kN

140 g x 10

Double aluminium alloy pulley on ball bearings, designed for zip lines (less than  $\varnothing$  13 mm) and cables (less than  $\varnothing$  12 mm).

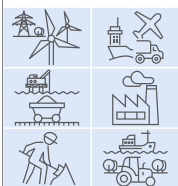
One size



EN12278  
20 kN

280 g x 10

TC040



13



TC009



Double swivel on ball bearing.

One size



EN354

160 g x 20

Semi-static braided rope  $\varnothing$  10,5 mm - Length on request.

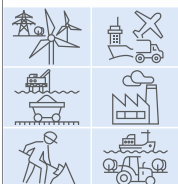
per meter



EN1891  
TYPE A

200 g x 1

TC029



Opening rope protection 35 cm. Velcro tape closure. Scalable length by adding elements.

One size

200 g

x 100



# Easy to install, it is lightweight and adapts to all types of floors

## TRA20 - TRA22 - TRA30 - TRA32

Steel swivel

- Adaptable to any type of surface
  - 3 anchorage points
  - Possibility of descending by rope
- Certified for 3 people
- Usable by 3 people



### TRA101



### TRA102



### TRA103



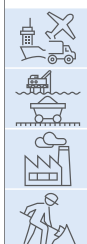
### PROTECTOR ELEVATOR TR01820U - TR01830U



### TR00620 - TR00630



### TRBAG - TRBAG3





There are as many types of flooring as types of applications, our tripods had to be able to adapt: here is the challenge that we had to meet during the creation of this device: complex but exciting ! Today the user's testimony proves that we have developed the expected solution.

David Naulin, Fall Protection Product Expert

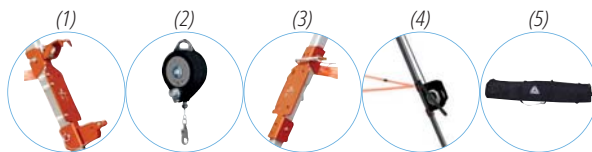


TRA20	Telescopic aluminium tripod. Height adjustable from 1.20 m to 1.97 m. Maximum wheelbase on ground 1.89 m. 3 tripod head anchor points, 2 anchor points on the legs. Ability to set the TRA101 or TRA102 adjuster plate or the TRA103 steps.	Adjustable	CE	EN795 TYPE B	TS16415 3	15.3 kg	x 1	
TRA22	Telescopic aluminium tripod. Height adjustable from 1.20 m to 1.97 m. Maximum wheelbase on ground 1.89 m. 3 tripod head anchor points, 2 anchor points on the legs. Equipped with TRA101 and TRA102 adjuster plates. TRA103 steps not included.					17.4 kg		
TRA30	Telescopic aluminium tripod. Height adjustable from 1.74 m to 3.02 m. Maximum wheelbase on ground 2.62 m. 3 tripod head anchor points, 2 anchor points on the legs. Ability to set the TRA101 or TRA102 adjuster plate or the TRA103 steps.					20.1 kg		
TRA32	Telescopic aluminium tripod. Height adjustable from 1.74 m to 3.02 m. Maximum wheelbase on ground 2.62 m. 3 tripod head anchor points, 2 anchor points on the legs. Equipped with TRA101 and TRA102 adjuster plates and the TRA103 steps.					22.2 kg		
TRA101	Aluminium mounting plate for a self retracting fall arrest. To set on tripod TRA20 and TRA30.	One size				1.3 kg		
TRA102	Aluminium mounting plate for hoist. To set on tripod TRA20 and TRA30.					860 g		
TRA103	Step to access the tripod head and the pulley. Sold individually.					500 g		
PROTECTOR ELEVATOR TR01820U	Self retractable fall arrester in stainless steel cable, Ø 5 mm. Rescue winch function with removable handle. ABS housing. Inertia locking system. Energy absorber. 1 automatic swivel connector with fall indicator, opening 17 mm.	20 m	x 1 U connector	CE	EN360 150 kg	EN1496 CLASS A 150 kg	13.9 kg	x 1
PROTECTOR ELEVATOR TR01830U		30 m					14.5 kg	
TR00620	Manual winch in galvanized steel cable. Length 20 m. Non-return system.	20 m	CE	2006/42/EEC	EN1496 CLASS B	7.8 kg		
TR00630	Manual winch in galvanized steel cable. Length 30 m. Non-return system.	30 m				8.1 kg		
TRBAG	Storage bag with wheels for tripod. 250 x 250 x 1640 mm.	One size				1.5 kg	x 10	
TRBAG3	Storage bag with wheels for TRA30 and TRA32 3m tripod. 260 x 260 x 2100 mm.					1.8 kg		



**GIRAFE TRG20**

- TRA101 (1)
- TR01720
- TR01730 (2)
- TRA102 (3)
- TR003C
- TR003K (4)
- TRBAG3 (5)



5 13

**TRG01**



**TRG02**



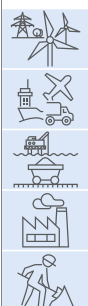
**TRG03**



GIRAFE TRG20	Mobile anchor for confined space. 360° rotation. Height adjustable from 1.90 m to 2.50 m. Base sold separately. Option to attach the adapter board TRA101 or TRA102.	Adjustable	CE	EN795 TYPE B	25 kg	x 1
TRG01	Rotating base on floor for TRG20 anchorage.	One size			16 kg	
TRG02	Rotation base for wall for TRG20 anchorage.				19 kg	
TRG03	Mobile base for confined space for TRG20 anchorage.				36 kg	



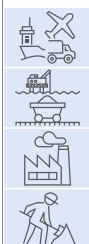
TC022



13

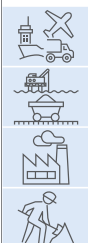
RAH33

Allows a person to descend head down into a confined space (piping, sewer, tank)



13

TC105



13

TC104



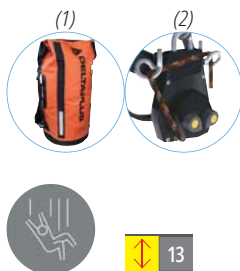
13

RAH33	Head down harness with rescue sling. 3 attachment points (sternal, dorsal and for rescue). 7 adjustment buckles.	S/M/L	CE	EN1498 CLASS C	EN361	2 kg	x 5
TC105	A seat for a vertical movement. Adjustable footrest length for better stability. Ring D tool holder on both sides.	One size				2.2 kg	x 2
TC022	Rapid evacuation triangle. Fits all body types with its 12 adjustment points.	Adjustable		EN1498 CLASS B		1.1 kg	x 1
TC104	Universal and foldable rescue stretcher, with adjustable straps.	One size	CE	2017/745 - UE CLASS 1		18.7 kg	



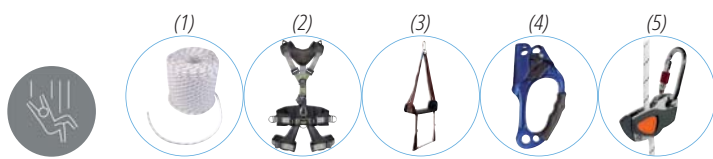
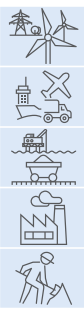
### RESCUEHUB TC065

Equipped with a storage bag TC008 (1)  
2 rope passes (2)  
Length 300 m max.  
2 people, ≤ 225 kg  
 ▶ Precise control of the speed of descent for better safety  
 ▶ Improved rescue speed via use with a screwdriver



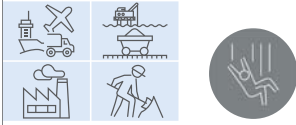
### ROPE ACCESS KIT TC039

For use with TC009 (1)  
For use with HAR36R (2)  
For use with TC105 (3)  
For use with TC002, TC003 and TC012 (4)  
For use with CAMELEON AN066 (5)



TC066	Static polyamide rope, Ø 9.6 mm for TC065. Sold by meter, max length 300 m. Loops sewn thimble.	per meter < 300m	CE	EN1891 TYPE A			
RESCUEHUB TC065	Descender, rescue equipment with hand wheel able to lift up to 225 kg. Approved for 2 people. Automatic brake system. 2 connectors AM030. 1 swivel. TC066 rope sold separately by the meter (max length 300 m), sewn thimble loops.	One size		EN341 TYPE 1 CLASS A	EN1496 CLASS B	3.2 kg	x 1
ROPE ACCESS KIT TC039	Rope access set comprised of: 1 double safety auto locking descender device TC006, 1 anchor ring LV102150, 2 connectors AM025, 1 carrier bag TC008. Rope TC009 sold separately per meter.			EN12841 TYPE C	EN341 CLASS A	EN362 CLASS B	EN795 TYPE B

**TRBAG**



**TRBAG3**



Storage bag with wheels for tripod. 250 x 250 x 1640 mm.

One size 1.5 kg x 10

Storage bag with wheels for TRA30 and TRA32 3m tripod. 260 x 260 x 2100 mm.

One size 1.8 kg x 10

**RA038\_**



**TC008**



PVC fabric bag for storage and protection of equipments during transport. Dimensions: 22x33 cm.

One size 512 g x 20

PVC fabric bag for storage and protection of equipments during transport. Dimensions: 30 x 65 cm.

One size 1 kg x 5

**RA005L**

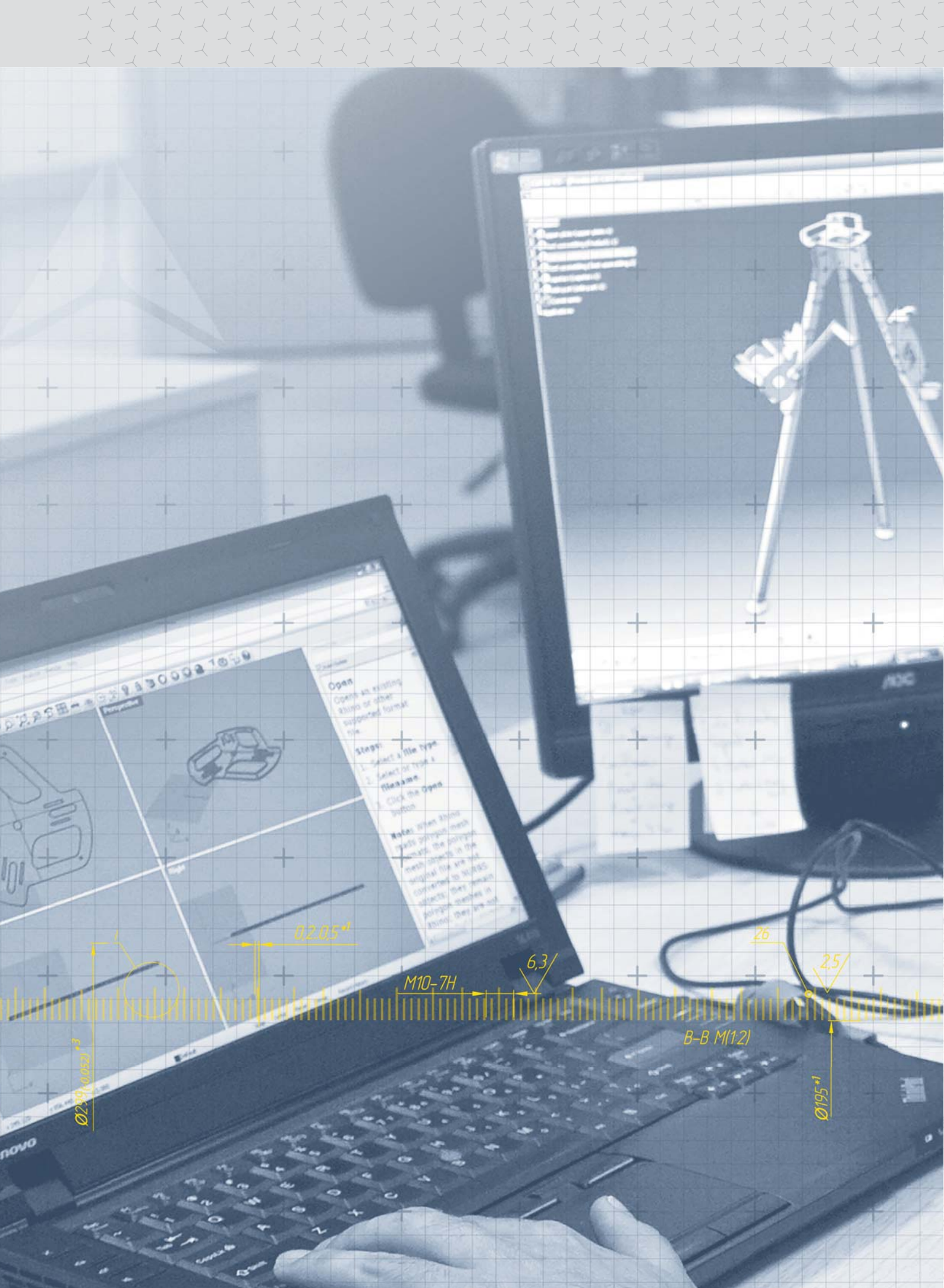


Tools bag in PVC fabric, connectable to a harness, for storage and transport of equipment. Dimensions: 32x15 cm.

One size 194 g x 20







**Delta Plus provides protection at work from head to toe for both women and men**



# TECHNICAL INFORMATION



## PACKAGING

Technical information

348-349



## CORNER «SHOP IN SHOP»

Solutions merchandising

350-351

## HEAD PROTECTION

Technical information

355-365



## HAND PROTECTION

Technical information

366-371



## BODY PROTECTION

Technical information

371-376



## FOOT PROTECTION

Technical information

377-378

## FALL PROTECTION

Technical information

379-381



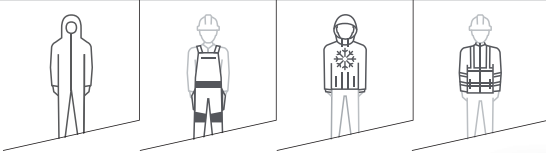
## INDEX

382-387









### CORNERLOWPART3 - 4

H 120 x W 150 x D 120 cm  
 Low module



### CHESTDUMMYGR

H 79 x W 40 x D 40 cm  
 PVC chest dummy



### MANNEQUIN

H 172 x W 60 x D  
 60 cm  
 Dummy

### CORNERCUBE

Cube Pouf Made From Sustainable Wood  
 H 40 x W40 x D40 cm

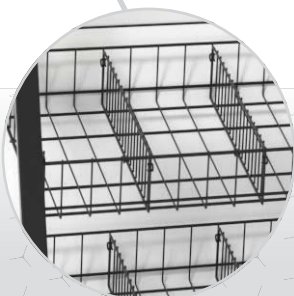
### CORNERDRESSING2

H 200 x W 85 x D 60 cm  
 Cabine d'essayage



### CORNERBASKET4

H 12 x W 102 x D 50 cm  
 Inclined basket with dividers

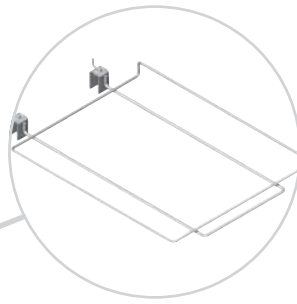


### PLV012GR

H 79 x W 44 x D 8 cm  
 PVC chest dummy  
 with hanger

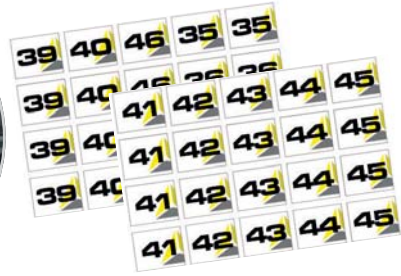






**CORNERSHOES10**

H 5,5 x W 32 x D 48 cm  
1 support of 2 pairs of shoe without box. Suitable for perforated back panel



**CORNERFRAMESHOES**

H 10 x W 20 x D 50 cm  
Set of 4 magnetic shoe supports



**PLV031**

Footwear Display Made From Sustainable Wood  
H149 x W100 x D 40 (cm)



**PLV010**

H 166 x W 60 x D 60 cm  
Footwear display



**MERCHANDISING SOLUTIONS**



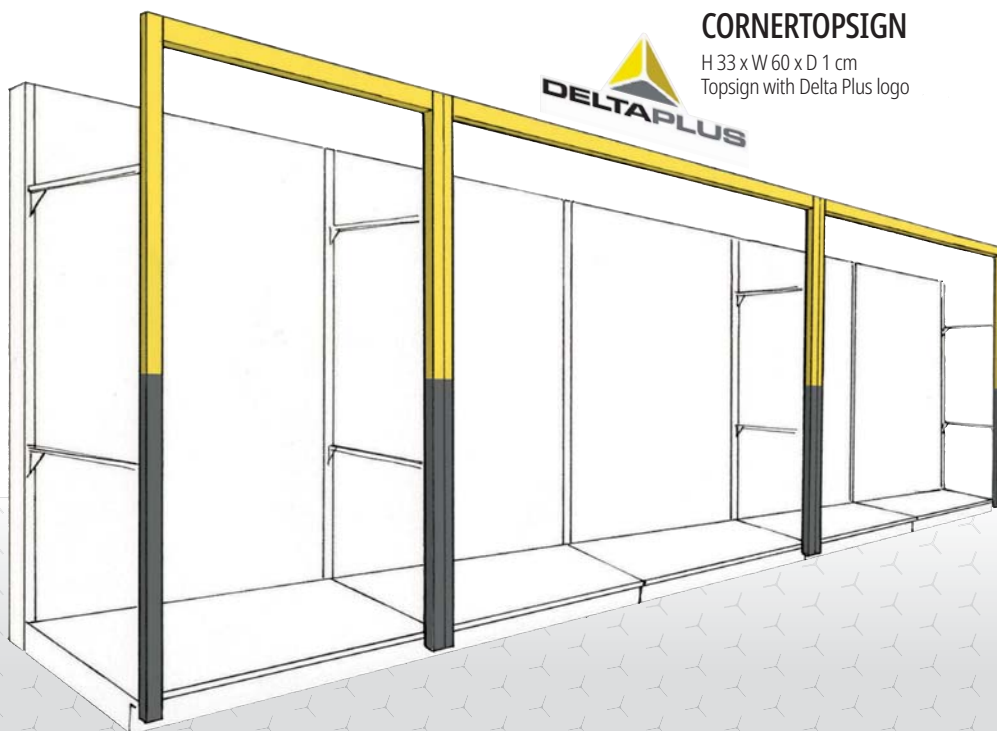
**PLV028NO**

H 36 x W 100 x 2 cm  
2 Topsigns



**CORNERFRAME**

H 220 x H 200 --> 300 x D 30 --> 60 cm  
Decoration for sales shelves (adjustable)

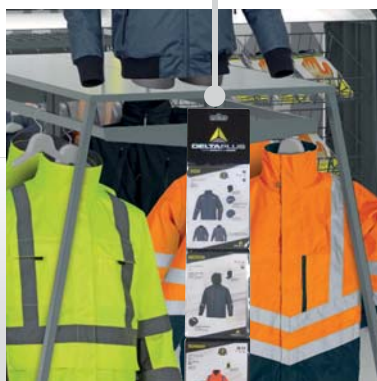


**CORNERTOPSIGN**  
H 33 x W 60 x D 1 cm  
Topsign with Delta Plus logo

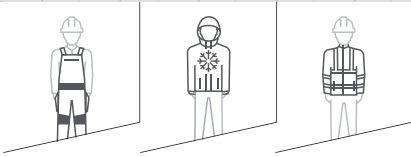


**PLV019NO**

H 90 x W 11,5 x D 1 cm  
Support 5 product cards



*Delta Plus provides protection at work from head to toe for both women and men*



**CORNERSEASON2**

H 120 x W 120 x D 60 cm  
Low display for seasonal clothing on hanger



**CLIPHANGER2**

H 13.5 x W 36.5 x D 2.5 cm  
Wooden hanger for trousers



**HANGER2**

H 22 x W 44 x D 1 cm  
Wooden hanger for jackets



**PLV030**

H 190 x W 58 x D 36 cm  
Mini metal display + 12 hooks



**PLV017JA**

H 120 x W 35 x D 55 cm  
Cardboard display with 3 shelves



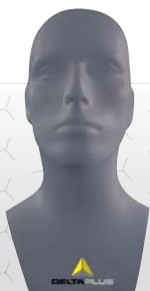
**PLV002**

H 25,5 x W 33 x 36 cm  
Cardboard box



**HEADDUMMY001**

H 40 x W 25 x D 25 cm  
Head dummy



**PLV036**

Eyewear Display Made From Sustainable Wood  
H 45 x W 20 x D 17 cm



**PLV022BC**

H 33 x W 23 x D 7 cm  
3D molded hand with magnetic base



**PLV023BC**

H 4 x W 60 x D 20 cm  
Metal base for 3D molded hand





## REGULATORY FRAMEWORK

### ▶ THE REGULATION (EUROPEAN UNION)

EU Regulation 2016/425 establishes the requirements applicable to the design and manufacture of personal protective equipment (PPE) intended to be made available on the market, with a view to ensuring the protection of the health and safety of users.

Compliance with the provisions and requirements of this Regulation allows the manufacturer to affix the CE marking on the PPE.

The EU Regulation 2016/425 has replaced the EEC Directive 89/686 since 21/4/2018.


### ▶ STANDARDISATION

Its objective is to develop test methods and requirements in the form of standards defining the technical specifications of products. Some of them, mostly requirements standards, are harmonised with EU Regulation 2016/425. Compliance with these harmonised standards gives an assurance of compliance with the requirements of EU Regulation 2016/425.

### ▶ CATEGORISATION

Taking into account the level of risk covered, the Regulation defines the PPE categories and determines the various manufacturer's obligations:

- **PPE category 1:** Protection against minor risks.
- **PPE category 2:** All PPE that are not category 1 or 3.
- **PPE category 3:** Protection against disability or fatality.



**DECLARATION OF CONFORMITY**

---

DELTA PLUS GROUP declares that this product complies with the following regulations :

**Identification of the PPE object of the declaration :**  
**QUARTZUP3 - QUARTZ UP III**

**Designation :**  
 ROTOR ADJUSTMENT SAFETY HELMET

**Colour :**  
 White, Blue, Yellow, Orange, Red, Green

**Size :**  
 Adjustable

**Specifications :**  
 UV-resistant high density polypropylene (PP) safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR® system: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C.

The PPE is also identifiable by the following means :

- The product picture
- Each PPE wears the name indicated on this declaration of conformity.
- Each PPE wears the bar code indicated in the annex to this declaration of conformity
- Each PPE wears a batch number. For any further information, just give it to us. Our organization, based on this batch number, allows us to ensure the traceability of the PPE.

**EU DECLARATION OF CONFORMITY**  
 This declaration of conformity is issued under the sole responsibility of the manufacturer.  
 The object of the declaration identified above is in conformity with the relevant Union harmonisation legislation:  
 EU 2016/425 Regulation, with its requirements and with the harmonised standards:

**CE**  
 REGULATION (EU) 2016/425

**EN397:2012 + A1:2012 Protective helmets for industry**  
 80kV: Kichem mistal spray  
 +50°C -30°C: Very low temperature -30°C / +50°C  
 440VAC: Electric insulation

**EN50365:2002 Electrically insulating helmets for use on low voltage installations**  
 0: Electrically insulating helmets - Class 0

**2008 - DOLOMITICERT S.C.A.R.L. (Z.I.ND. VILLANOVA, N°1 32013 LONGARONE (BU ITALY)) :**  
 Notified body which performed the EU Type- examination (module B) and issued EU type-examination certificate: EC 13 0022 REV 1

The PPE is subject to the conformity assessment procedure to type based on quality assurance of the production process (module D) under surveillance of the notified body: 0082 - APAVE SUDEUROPE (CS60193 13322 MARSEILLE CEDEX 16 FRANCE )  
 Apt, 14/11/2018

Signed for and on behalf of DELTA PLUS GROUP :  
 David GUIHO  
 Marketing director

DELTA PLUS GROUP - ZAC La Peyrolère - BP 140 - 84805 Apt FRANCE cedex - Tel :+33 (0)4 90 74 20 33 - Fax :+33 (0)4 90 74 32 59  
 E-mail : info@delta-plus.eu - Web : www.delta-plus.eu

### ▶ CERTIFICATION PROCEDURE

- **Category 1 PPE:** Evaluation of conformity by the manufacturer (Module A)
- **PPE category 2 and 3:** EU type examination of the PPE (Module B) by a notified independent body for which compliance (with Regulation EU 2016/425) is verified using standards that are in accordance with the regulation. Issuance of the EU Type Examination Certificate (confidential document).
- **PPE category 1, 2 and 3:** CE marking on the product.
- **PPE category 3:** Control by a notified independent body that ensures compliance of the manufacture with the examined PPE:
  - either monitoring of conformity to the type based on the internal control of production and supervised controls of the product at random intervals (Module C2),
  - or conformity to the type based on quality assurance of the production method (Module D).
- **PPE category 1, 2 and 3:** Writing by the manufacturer of the EU Compliance Declaration which proves the compliance of the PPE with Regulation EU 2016/425 to the distributor and the market enforcement authorities.

The product sheet, the user instructions and the Declaration of Conformity are available online on our website: [www.deltaplus.eu](http://www.deltaplus.eu)

USA	ANSI, ASTM, NIOSH
Argentina	    <b>AR 1983</b>
Brazil	CA
China	Normes GB
Canada	
Ukraine	
Common Economic Space (Russia, Belarus, Kazakhstan)	

### ▶ OTHER ACCREDITATIONS (OUTSIDE EUROPEAN UNION)

Some of our products are accredited under the regulations of many countries. The products concerned (and / or their bear the following markings:



## SAFETY EYEWEAR

Safety eyewear provides protection from spray and splatter from particles, liquids and dust, and chemical fumes and radiation.

### ▶ HOW TO PROTECT YOURSELF?

Select the most suitable protective glasses or shields

- **Identify the type of risk:** sprays, radiation, other, ...
- **Determine the type of protection:** spectacles-type safety glasses, goggles, face mask, cover goggles, ...

- **Note the protective features:** scratch-resistant, fog-resistant, tinted, ...
- **Select the type of eye-piece:** one-piece or double lens
- **Choose the frame type:** design, classical, ...

### ▶ STANDARDS

**EN166** : applies to all types of individual protection of the eye which protects from hazards likely to damage the eye, except for nuclear radiation, x-rays, laser emissions and infrared emitted by low-temperature sources. Does not apply to eye protection for which separate standards exist (anti-laser eye protection, sunglasses for general use,...).

**EN175** : Specifications for the safety requirements for eye and face protection equipment for welding and related techniques (filters frames/ media).

**EN169** : Specifications of level numbers and requirements relating to the transmittance of filters to protect operators for welding and related techniques. Specification of requirements for welding filters with double number of levels.

**EN170** : Specifications of level numbers and of requirements relating to the transmittance of the filters for protection against ultraviolet radiation.

**EN172** : Specification of level numbers and requirements relating to the transmittance of filters for protection against solar radiation, industrial use.

**EN379** : Specification of the requirements for automatic welding filters, i.e. welding screens with automatic variation of the transmission factor. These screens are intended to protect operators during welding and related techniques..

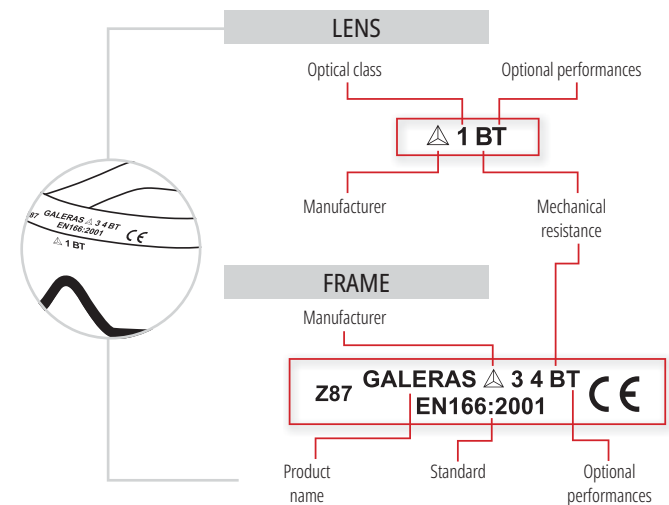
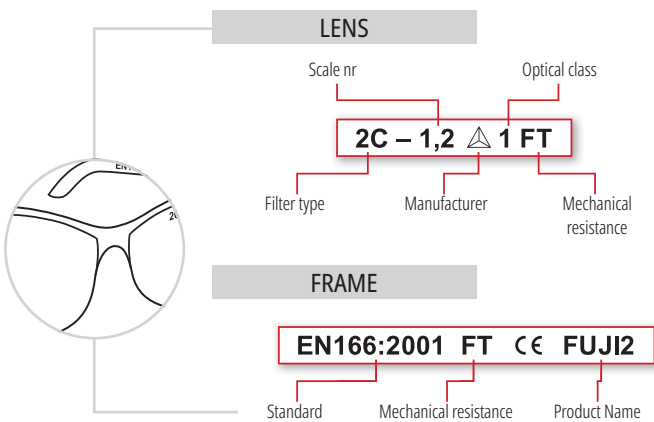
**EN1731** : Material specifications, design, performance and test methods for eye and face mesh type protective, for professional use.

**ANSI (US American National Standards Institute) Z87.1** : Specifications and minimum general requirements, test methods, selection, use and maintenance of eye and face protection.

**GS-ET 29**

Requirements, performances, test methods relating to face shields providing protection against electric arcing

### ▶ MARKING



#### • SYMBOL MEANING – EN166:

1 : optical class allowing permanent wear of the spectacles

#### Mandatory performances

S : Increased robustness: steel ball of 22 mm diameter at 5.1 m/s. (18.36 km/h)

F : Low energy impact: steel ball of 6 mm diameter at 45 m/s. (162 km/h)

B : Medium energy impact: steel ball of 6 mm diameter at 120 m/s. (432 km/h)

A : High energy impact: steel ball of 6 mm diameter at 190 m/s. (684 km/h)

#### Optional performances

3 : Liquid resistance (droplets or splashes).

4 : Large dust particles resistance (size of > 5 μm).

5 : Gas and fine dust particles resistance (size < 5 μm).

8 : Short circuit electric arc resistance.

9 : Resistance to splashes of molten metal and penetration of hot solids.

T : (F - B - A) Mechanical resistance to extreme temperatures -5°C/+55°C.





N : Resistance to fogging of lenses.

K : Resistance to surface damage by fine particles (anti-scratch).



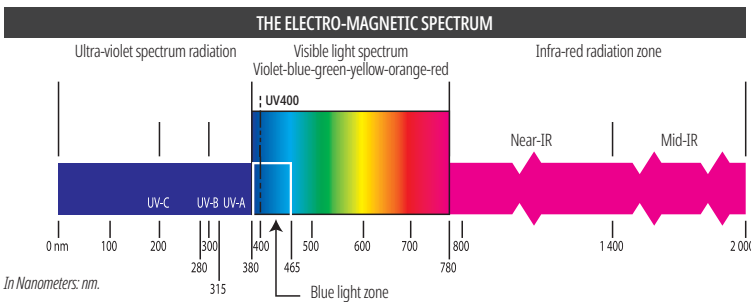
**FILTERS**

Special filters can eliminate certain parts of light and a high proportion of the electro-magnetic spectrum (ultraviolet rays, infrared rays...).

SPECTACLES LENS MARKING								
Lens colour	Minimal transmission factor of visible light	SCALE Nr	EN166					WELDING (EN169)
			UV FILTERS (EN170)		IR FILTERS (EN171)	SUN FILTERS (EN172)		
			2	2C	4	5	6	
			Colours perception may be altered	Colours perception is not altered		Without IR protection specification	With IR protection specification	no code nr
CLEAR 	80,0%	1,1				5-1,1	6-1,1	
	74,4%	1,2	2-1,2	2C-1,2	4-1,2			
LIGHT SMOKE 	58,1%	1,4	2-1,4	2C-1,4	4-1,4	5-1,4	6-1,4	
	43,2%	1,7	2-1,7	2C-1,7	4-1,7	5-1,7	6-1,7	
	29,1%	2	2-2	2C-2	4-2	5-2	6-2	
SMOKE 	17,8%	2,5	2-2,5	2C-2,5	4-2,5	5-2,5	6-2,5	
	8,0%	3,1				5-3,1	6-3,1	
VERY DARK (FOR WELDING) 	8,5%	3	2-3	2C-3	4-3			3
	3,2%	4	2-4	2C-4	4-4	5-4,1	6-4,1	4
	1,2%	5	2-5	2C-5	4-5			5
	0,44%	6			4-6			6
	0,16%	7			4-7			7
	0,061%	8			4-8			8
	0,023%	9			4-9			9
	0,085%	10			4-10			10
	0,0032%	11						11
	0,0012%	12						12
	0,00044%	13						13
	0,00016%	14						14
	0,000061%	15						15
	0,000023%	16						16

Lens marking is composed by 2 numbers (separated in the middle by a "-"):

- CODE NUMBER:** from 2 to 6. Welding lens have no code number.
- STEP NUMBER:** from 1,1 (the highest % of transmission in visible light, the clearest lens) to 16 (the lowest % of transmission in visible light, the darkest lens).
- DELTA PLUS RANGE:** The yellow coloured possibilities are available on DELTA PLUS range.

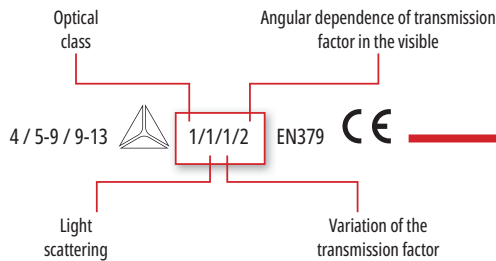


**i** All our polycarbonate glasses filter 99.9% of UV A, B and C from 130 to 380 nm. Our UV400 glasses carry UV filtration up to 400 nm.

RISKS TO THE EYE FROM HARMFUL RADIATION			
Zone	Wave Length	Environment	Eyesight damage
UV-A	315-380 nm	Outdoor work.	Eye fatigue, partial blindness, cataract. Sunshine.
UV-B	280-315 nm	Sunlight. Industrial environment. Black light tests.	Cataract. Welder flash. Arc flash.
UV-C	100-280 nm	Industrial environment. Arc welding.	Cornea or crystalline lesions. Loss of eyesight.
Harmful blue light	380-465 nm	Industrial environment. Computer work (fatigue, VDU). Electrical installations. Outdoor work.	Retinal lesions. Loss of eyesight. Blurring degeneration (age). Retinitis pigmentosis.
Infra-red	780-1400 nm (near IR) 1400-2000 nm (IR mid)	Electric welding. Molten work (glassmaking, steel production). Micro-wave processes. Sunlight.	Retinal lesions. Blurring degeneration (age). Retinitis pigmentosis (near-IR). Crystalline and cornea lesions (mid-IR).

**WELDING**

- 1** The highest quality
- 3** The lowest quality



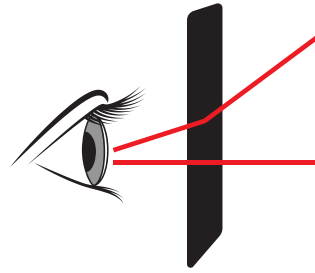
**1 Optical class:**  
Means the distortion of the image when viewed through the screen



**2 Light scattering:**  
Means the clarity and sharpness of the screen. Is the image blurred?



**3 Variation of the transmission factor:**  
Refers to the consistency of the shade of the screen when adjusted. No very dark or very light area should appear on the screen.



**4 Angular dependence of transmission factor in the visible:**  
The clarity of the screen must remain the same depending on the angle between our view and the self-obscuring screen.

**ARC WELDING**

RECOMMENDED USE OF DIFFERENT GRADE NUMBERS FOR ARC WELDING ACCORDING TO STANDARDS EN169/EN175

Process	A Current amperage																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
MMA	8			9			10			11			12			13			14		
MAG	8			9			10			11			12			13			14		
TIG	8			9			10			11			12			13					
MIG (heavy metals)	9			10			11			12			13			14					
MIG (light metals)	10			11			12			13			14								
Arc air gouging	10			11			12			13			14			15					
Plasma cutting	9			10			11			12			13								
Micro plasma welding	4	5	6	7	8	9	10	11	12												

This table is valid under normal conditions of use, in which the distance between the eye of the user and the mass of molten metal is approx. 50 cm and average light is approx. 100 lux.



## SKULL PROTECTION

### ▶ HOW TO PROTECT YOURSELF?

To choose the correct safety helmet.

**To identify the risk:** falling bumps or combined risks (hearing protection and face protection).

The safety helmet has three functions:

**Antipenetration** for an effective skull protection.

**Shock absorber** because the cap and the harness absorb shocks.

**Deflector** thanks to a suitable design which makes it possible to deflect the fall of an object from the top of the head.

There is in addition a selection of accessories which offers face and hearing protection.

### ▶ STANDARDS

EN397	Protective helmets for industry	MANDATORY	<b>Impact*</b> : force transmitted to the headform must not exceed 5 kN at the fall of an object of 5 kg from a 1 m height. The impact energy of the helmet at the end of the test is 49 J. <b>Penetration*</b> : the tip of the mass used in the test (3 kg over 1 m) must not come into contact with the skull. <b>Flammability*</b> : the helmet should not burn with flame emission more than 5 seconds after removal of the flame. <i>* The impact and penetration tests are performed at room temperature, at 50°C and at -10°C.</i>
		OPTIONAL	<b>In extreme temperatures</b> : impact and penetration tests are conducted at room temperature at 150°C, at -20°C or -30°C. Protects against accidental short-term contact with a live <b>electrical conductor up to 440 VAC</b> . Protects against <b>lateral compression</b> . The maximum deformation of the helmet should be ≤ 40 mm. Resistance to <b>molten metal splashes</b>
EN50365	Electrical insulation helmets for use in low voltage environment	MANDATORY	<b>Electrically insulating helmets</b> for use near energised equipment not exceeding <b>1000 VAC or 1500 VDC</b> (appliance class 0). Used simultaneously with other electrically insulating protective equipment, these helmets prevent dangerous currents passing through to the person's head. These optional electrical insulation tests are more stringent than the EN397 and they complement them. (2 triangle marking, Class 0).
ANSI/ISEA Z89.1	(American National Standards Institute) American standard for industrial head protection	MANDATORY	Depending on the type and class of the helmet: Protection against mechanical risk (impact, penetration, crushing), flammability, electrical insulation.
		OPTIONAL	
EN812	Bump caps for industry	MANDATORY	<b>Impact*</b> : This PPE protects against impacts from knocks against structures or objects. It does not protect from the impact of a falling object at all. The impact energy of the cap at the end of the test reached 12.25 J. <b>Penetration*</b> : the tip of the mass used in the test (0.5 kg over 0.5 m) must not come into contact with the skull. <i>* The impact and penetration tests are performed at room temperature, at 50°C and at -10°C.</i> Should in no way be a substitute for an industry type helmet (EN397).
		OPTIONAL	<b>In extreme temperatures</b> : impact and penetration tests are conducted at room temperature at -20°C or -30°C. Protects against accidental short-term contact with a <b>live electrical conductor up to 440 VAC</b> . <b>Flammability</b> : the helmet must not burn with flame emission more than 5 seconds after removal of the flame (F marking).

### ▶ HELMET MARKING ILLUSTRATION



Helmet material  
ABS

Year and month of manufacture:  
Helmets lifespan:  
ZIRCON, QUARTZ UP:  
5 years from date of manufacture,  
3 years in use.  
SUPER QUARTZ, DIAMOND,  
GRANITE, ONYX:  
7 years from the date of manufacture,  
4 years use

06/2020

CE 0082  
EN397:2012 + A1:2012  
DIAMOND V  
-30°C LD MM 440 VAC  
Classe 0  
Batch NR :  
production date

- > CE Marking
- > Standard number
- > Name of the helmet model
- > Optional requirements
- > EN50365 standard
- > Batch number

DELTA PLUS  
53 - 63 cm

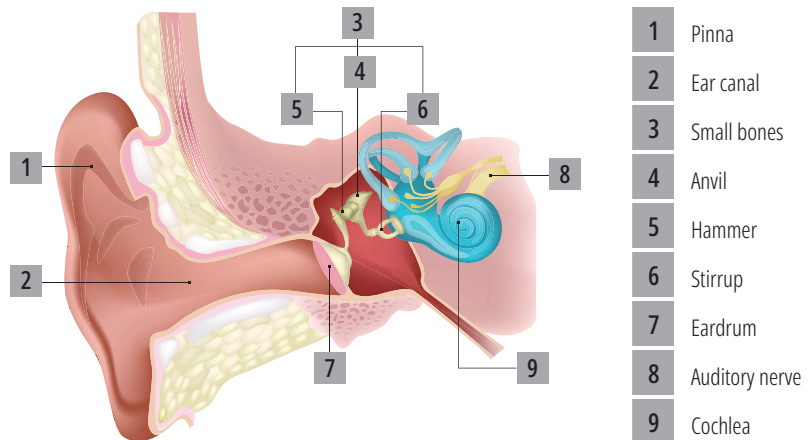
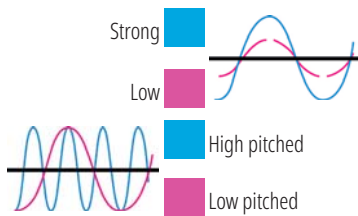
- > Manufacturer identification
- > Size Range



## HEARING PROTECTION

Noise-related hearing loss is the most common occupational disease in Europe and North America, accounting for almost one-third of all work-related illnesses. These disorders can lead to long-lasting effects causing stress, fatigue or isolation that significantly increases the risk of work-related accidents caused by other factors. Hearing loss is irreversible and often detected late, so PPE covering this risk is classified as Category III.

### ▶ THE EAR AND SOUND



Noise, as a vibratory phenomenon is Characterised by:

- **Its intensity** (in decibels [dB]) corresponds to the amplitude of the vibrations emitted by the sound source. 0 dB corresponds to the minimum sound level audible by the human ear. The pain threshold is 120 dB and the ear can be damaged from 85 dB.
- **Its frequency** (in Hertz [Hz]) which will define the perceived height. The higher the frequency and the higher pitched the sound, the lower it is and the lower pitched it will be. The human ear is able to perceive sounds at frequencies between 20 Hz (very low pitch) and 20,000 Hz (very high pitch).
- **Its duration and its variation**, which makes it possible to differentiate very brief sounds, of a duration in the order of a second, such as impulse noises (a shot, impacts) of sounds that have longer durations (hours, or a day) for which it is important to consider the resulting dose of noise received.

The ear can be broken down into three distinct parts:

- **The outer ear** consisting of the horn and the ear canal
- **The middle ear** between the eardrum and the inner ear. It is filled with air and allows, using the ossicles, to transform the aerial vibrations into structure borne vibrations that can be analyzed by the inner ear.
- **The inner ear**, the heart of the auditory system, consisting of a cavity filled with liquid containing the cochlea where the body of Corti is found. Within it, the vibrations of the liquid transmitted to the ossicles are picked up by the hair cells which select them by frequency. The information is then conducted by the auditory nerve to the cerebral cortex which can interpret it.

### ▶ DB(A)

The human ear has a particular sensitivity to each frequency range. At moderate sound levels, it is less sensitive to low pitched sounds. To represent this particular sensitivity, the noise measurements and standards use a weighting of the measured sound levels called weighting A. The thus weighted decibels are denoted dB (A).



### ▶ HOW TO PROTECT YOURSELF?

To choose the correct product for hearing protection.

- **Identify the nature of the noise:** stable, fluctuating, intermittent, pulse.
- **Measure the noise at the working station:** intensity (dB) and volume (Hz).
- **Determine the exposure time**
- **Calculate the reduction** necessary to return on an acceptable ambient level (see Directive 2003/10/CE).

Requirements Directive 2003/10/EC: Minimum requirements for the protection of workers against the risks related to noise exposure		
8 hours exposure time at $\geq 85$ dB(A)	8 hours exposure time at $\geq 80$ dB(A) and $< 85$ dB(A)	8 hours exposure time at $> 75$ dB(A) and $< 80$ dB(A)
Obligatory hearing protection	Hearing protectors available to the worker	Hearing protection recommended

The performance of the hearing protector (its attenuation level) must be adapted to the risk assessment of the workplace. It should bring the noise level to a level that is not harmful to health, while avoiding overprotection would cut the operator from his environment (warnings, communication...)

### ▶ REGULATORY DAILY DOSE AUTHORISED ACCORDING TO THE SOUND LEVEL:

<b>Continuous sounds</b>	Equivalent continuous sound pressure level in dB (A)	85 dB(A)	91 dB(A)	100 dB(A)	112 dB(A)
	Daily exposure duration equivalent to an exposure of 85 dB	8 hours	2 hours	15 minutes	1 minute
<b>Impulse sounds</b>	Peak sound pressure level in dB	135 dB	115 dB	95 dB	90 dB
	Limited number of pulses or shocks for 8 hours	1	100	10 000	30 000



**WEARING RATE**

Hearing protection decreases very rapidly when the protector is not worn continuously



2 mn of non-wearing (over 8h) => reduction of efficacy of the protector by 25%

2 hours of non-wearing (over 8 hours) => loss of efficacy of the protector by 75%

**STANDARDS**

- **EN352** : Exigences of safety and tests.
  - **EN352-1** : the ear-muffs.
  - **EN352-2** : the earplugs.
  - **EN352-3** : the adjustable head defenders for the safety helmets.
  - **EN352-4** : Noise cancelling headphones with level dependent attenuation.
  - **EN352-6** : Earmuffs with electrical audio input.
  - **EN352-8** : Audio enabled earmuffs.
- These standards establish requirements with regards to the manufacture, the design, performances and test methods. They stipulate the putting at disposal relative to the characteristics.
- **EN458** : Hearing protection Recommendations for selection, use and maintenance.
  - **ANSI (US American National Standards Institute) S3.19 - 1974**  
This standard specifies the test method for determining the level of noise attenuation (NRR Noise Reduction Rating) of the hearing protection, as recommended by the EPA (U.S. Environmental Protection Agency).

**SOUND LEVEL MITIGATION VALUES****DOUBLE PROTECTION:**

When wearing a single hearing protector is not enough, it is possible to combine them. The attenuation resulting from the simultaneous wearing of earplugs with a B SNR and a noise-cancelling headset with an ST SNR is calculated by the following formula:  $33 \times \log ((0.4 \times B) + (0.1 \times ST))$

**LEVEL OF NOISE****WEARING METHOD:**

When hearing protection equipment can be worn in several ways (on the head and under the chin for example), it must be tested for each method of wearing.

- **OTH** : Over the head
- **UTC** : Under the chin
- **BTH** : Behind the head

**HOW DO YOU USE THE ATTENUATION VALUES?**

3 indicators, from the simplest to the most precise are made available to the user:

- **SNR (Single Number Rating)** : Single average value of attenuation.
- **HML** : Attenuation values expressed in terms of average levels of frequency:
  - H : Attenuation of PPE at high frequencies (pitched noises)
  - M : Attenuation of PPE at medium frequencies
  - L : Attenuation of PPE at low frequencies (bass sounds)
- **APV (Assumed Protection Value)** : Attenuation values expressed on 8 specific frequency levels (see the data sheet of the hearing protector).

## RESPIRATORY PROTECTION

### European Directives: End user's obligations

89/391: Identify and assess the risk, take preventive and protective measures, inform and train the workers.

2004/37: Risks related to exposure to carcinogens or mutagens at work: hazard identification, «limit values», respiratory protection.

89/656: Select and use the appropriate and compliant PPE, inform and train people, check and replace the PPE when necessary.

### STANDARDS

The main standards concerning the respiratory apparatuses.

#### • EN136 : overall masks

It contains laboratory tests and practical performance tests to check the conformity with resistance to temperature, to impacts, to flame, to thermal radiation, to traction, resistance to cleansers and disinfectants. Furthermore, the visual inspection must concern the marking and the manufacturers' information guide.

#### • EN140 : half-masks and quarter-masks

It contains laboratory tests and practical performance tests to check the conformity with resistance to impacts, to cleaners and disinfectants, to temperature, to flame and respiratory resistance.

#### • EN14387 : gas filters and compound filters

It contains laboratory tests to check the conformity with resistance to impacts, to temperature, to humidity and corrosive atmospheres, and with mechanical and respiratory resistance.

#### • EN143 : filters against particles

It contains laboratory tests to check the conformity with resistance to impacts, to temperature, to humidity and corrosive atmospheres and with mechanical and respiratory resistance.

#### • EN149 : filtering half-masks

It contains laboratory tests to check the conformity with resistance to impacts, to cleansers and disinfectants, to temperature, to flame and with respiratory resistance.

#### • EN405 : half-masks fitted with valves and gas filters or compound filters

It contains laboratory tests to check the conformity with resistance to handling and wear, to impacts, to flame and with respiratory resistance.

#### • EN148-1 : standard threaded joint

This standard is specific to the standard connection system of the cartridge for full face masks.

#### • NIOSH (US National Institute for Occupational Safety) 42 CFR Part84 Filtering facial parts, multiple levels of protection (non exhaustive list):

- N95 : Filter at least 95% of the particles (non-oily) suspended in the air.
- N99 : Filter at least 99% of the particles (non-oily) suspended in the air.

PRODUCTS	STANDARDS	TOTAL INWARD LEAKAGE** (%)	NOMINAL PROTECTION FACTOR*
FFP1	EN149	22	4
FFP2	EN149	8	12
FFP3	EN149	2	50
½ mask P1 ½ mask gas XP1	EN140 EN14387 EN143 + A1	22	4
½ mask P2 ½ mask gas XP2	EN140 EN14387 EN143 + A1	8	12
½ mask P3 ½ mask gas XP3	EN140 EN14387 EN143 + A1	2	48
½ mask gas X	EN140 EN14387	2	50
Full Face Mask P3	EN136 EN143 + A1	0,1	1000
Full Face Mask gas XP3	EN136 EN14387 EN143 + A1	0,1	1000
Full Face Mask gas X	EN136	0,05	2000

\*NPF : Nominal Protection Factor corresponds to the level of protection tested in the laboratory. The Level of APF, Assigned Protection Factor, might be different according local regulations

\*\*TIL: Leakage of the ambient atmosphere into the respiratory interface measured in laboratory



<http://respiratory.deltaplus.eu>





**RESPIRATORY PROTECTION****MARKING**

**V** The valve provides better comfort. It facilitates exhalation, decreases CO<sub>2</sub> content, and reduces heat and humidity inside the mask.



**P** Horizontal folding.  
**B** Vertical folding.



**FFP1**  
Protection level of the mask according to the filtration ability of the filter medium.  
**F**iltering **F**ace **P**iece **P**articles = **F**iltering **F**ace **P**iece from **P**articles.

**NR** Non-Reusable.  
The mask should not be used for more than 8 hours.

**D** Optional test of the EN149:2001 + A1: 2009 standard for clogging the Dolomite.  
This test indicates that the mask has a greater resistance to clogging: Extended respiratory comfort.

**W** Protection against unpleasant odours.



No. of the quality control laboratory.

Instructions inside the packaging

Colour code filter

Standard

Storage conditions

Date of expiration (AAAA/MM)

**GAS AND VAPOUR FILTER**

Each filter or cartridge is identified with a colour code.

TYPE	TYPE OF PROTECTION	GAS AND VAPOUR
<b>A</b>	Protects from organic gases and vapours whose boiling point is > 65°C	Alcohol, acetic acid, ether, hexane, toluene, xylene, white spirits, thiophenol...*
<b>AX</b>	Protects from organic gases and vapours whose boiling point is ≤ 65°C	Acetone, acetaldehyde, ethyl ether, butane, methanol, trichloromethane...*
<b>B</b>	Protects from inorganic gases and vapours	Chlorine, chlorine dioxide, fluorine, formaldehyde, phosphine...*
<b>E</b>	Protects from sulphur dioxide and some acid vapours and gases	Sulphur dioxide...*
<b>K</b>	Protects from ammoniac and some amine derivatives	Ammonia, ethylamine, methylamine...*
<b>Hg</b>	Protection from mercury vapours	Mercury and mercury compounds*

**FILTER ABSORPTION CLASS FOR GASES AND VAPOURS**

Class 1	Low capacity filter (pollutant concentration < 0.1% or 1000 ppm).
Class 2	Average capacity filter (pollutant concentration < 0.5% or 5000 ppm).
Class 3	High capacity filter (pollutant concentration < 0.1% or 10,000 ppm).
ppm	Concentration in parts per million.

**DUST AND AEROSOL FILTERS**

TYPE	PROTECTION	PARTICULES
<b>P1</b>	Protects from non-toxic dust and / or water-based aerosols.	Cement dust, flour, calcium carbonate (chalk), graphite, cotton, concrete...*
<b>P2</b>	Protects from slightly toxic or irritating solid aerosols and / or liquids.	Untreated softwood, grinding, cutting, welding, milling, coal, fibre glass, mineral fibre, graphite, pesticide powder...*
<b>P3</b>	Protects from solid aerosols and / or liquids listed as toxic.	Asbestos (without manipulation), pesticide powder, biological agents, pharmaceutical powder, treated wood, hard wood (exotic), chrome, lime, lead, graphite...* Manganese, kaolin, sodium hydroxide (caustic soda), quartz, silica...*



\*This type of usage is indicative and cannot engage Delta Plus Responsibility.





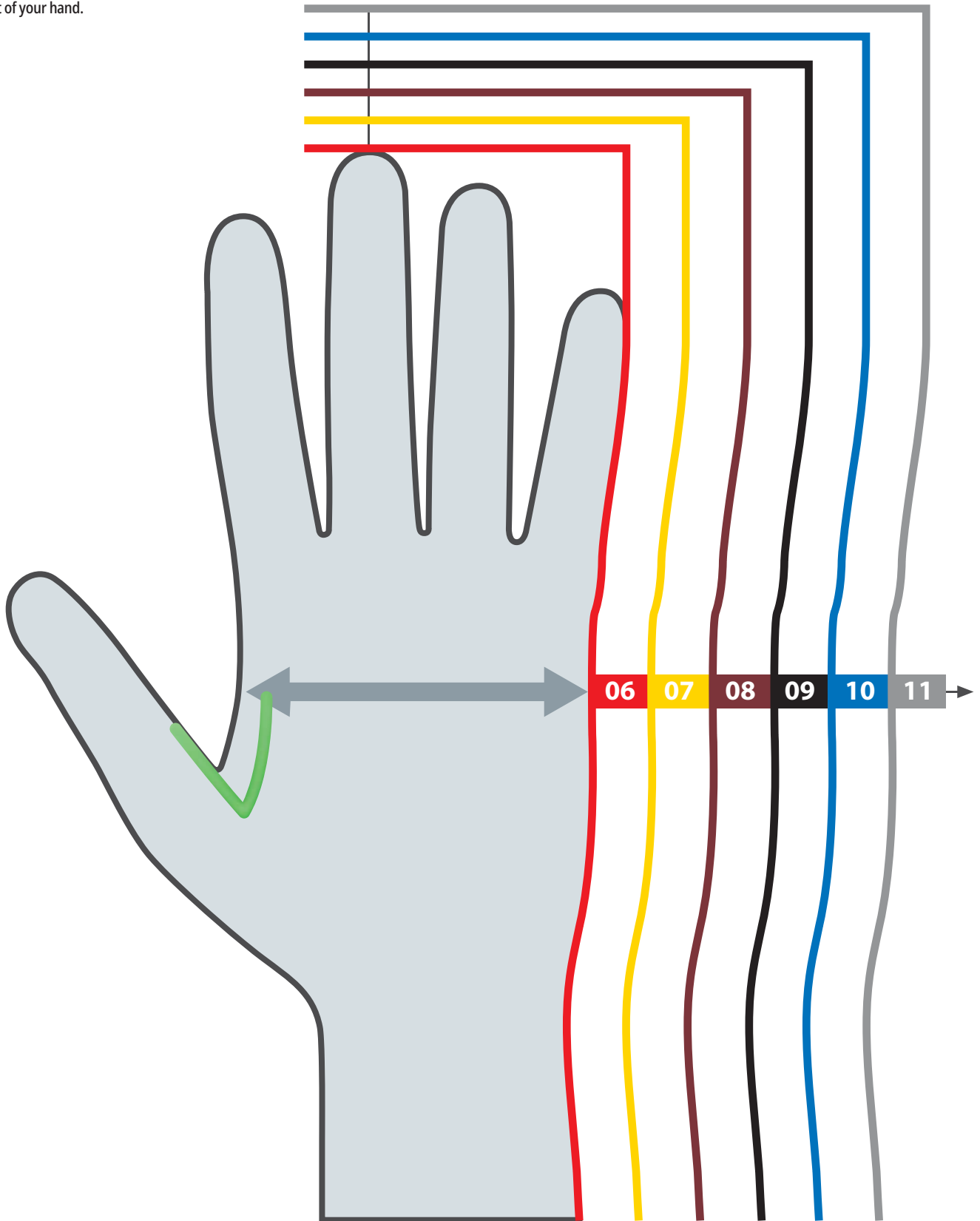




## HAND MEASURING

### ▶ CHECK YOUR SIZE:

Place your hand as shown on the drawing, with the green line between the thumb and the index finger. Read your size to the right of your hand.








## THE EUROPEAN STANDARDS

### EN ISO 21420 GENERAL REQUIREMENTS

The reference standard, cannot be used alone, but only in combination with another standard containing protection performance requirements.





- Conform to **harmlessness** (pH, chrome VI levels, etc...).
- Conform to the **size charts** (see chart on below).
- Assess the **dexterity, breathability, and comfort**.
- Conform to the **labelling, information and identification instructions**.

SIZES AS PER STANDARD EN ISO 21420

Glove size 	Palm circumference (mm) 	Length (mm) 
6	152	160
7	178	171
8	203	182
9	229	192
10	254	204
11	279	215
12	304	226

### STANDARDISED LABELING/IDENTIFICATION

Each protective glove is clearly identified by a Standardised label, containing the following elements:

- Our brand logo;
- The product reference or the trade name;
- The size;
- An information tag indicating that instructions are available for the product;
- The Standardised pictogram(s) with their performance ratings.
- The batch number  and/or date of manufacture.  
- If applicable, the expiry date. 

### EN16350 ELECTROSTATIC PROPERTIES

Standard EN16350 provides additional requirements for protective gloves that are worn in areas where flammable or explosive areas exist or might be present.

Further electrostatic properties can be determined through EN1149-1 (surface electrostatic properties) or EN1149-3 (charge decay), but cannot be used for electrostatic dissipative protective gloves.

### EN511 HEAT AND FIRE RISK

The EN511 standard defines the requirements and test methods for cold protection gloves from cold transmitted by convection or conduction down to -30°C (optionally up to -50°C). This cold can be from climatic conditions or industrial activity.

The selection process of a cold protection glove must take into account several parameters such as the ambient temperature, the health of the person, the duration of exposure, and the level of activities...

PERFORMANCE LEVELS	REQUIREMENTS
1 to 4	1
	IMPERMEABILITY TO WATER
	RESISTANCE TO CONTACT COLD Measurement of the thermal insulation of the palm of a glove with respect to contact with an object of low temperature
	RESISTANCE TO CONVECTIVE COLD Measurement of the thermal insulation of a glove with respect to an ambient atmosphere..

PERFORMANCE LEVEL	INTENSE ACTIVITY	AVERAGE ACTIVITY	SLOW ACTIVITY
1	-10°C ≤ T < 0°C		
2	-30°C < T	0°C ≤ T < 10°C	
3		-15°C < T	5°C < T
4		-30°C < T	-10°C < T

### EN407 HEAT AND FIRE RISK

The EN407 standard specifies the test methods, the general requirements, the thermal performance and the labelling of gloves and cuffs to protect from heat and fire.

It applies to all gloves which must protect hands from heat and/or flames in any one or several of the following forms: fire, contact heat, convective heat, radiating heat, small spray of molten metal or large spray of melting metal.

PERFORMANCE LEVELS	REQUIREMENTS
1 to 4	1 to 4
1 to 4	1 to 4
1 to 4	1 to 4
1 to 4	1 to 4
1 to 4	1 to 4
1 to 4	1 to 4
	RESISTANCE TO LARGE MELTING METAL SPRAY Amount of spray required to cause damage.
	RESISTANCE TO SMALL MELTING METAL SPRAY Amount of spray required to raise the glove to a certain temperature.
	RESISTANCE TO RADIATING HEAT Time required to raise to a given temperature level.
	RESISTANCE TO CONVECTIVE HEAT Time during which the glove is able to delay the transfer of the heat of a flame.
	RESISTANCE TO CONTACT HEAT Temperature (within the range of 100°C to 500°C) at which the person wearing the gloves will not feel any pain (for a period of at least 15 seconds).
	RESISTANCE TO FLAMMABILITY Time during which the material remains lighted and continues to be consumed after the ignition source has been eliminated.

If the product claims flammability resistance, the pictogram will be



If the product does not claim any resistance to flammability (0 or X), the pictogram will be



PERFORMANCE LEVEL	CONTACT TEMPERATURE °C	THRESHOLD TIME (second)
1	100° C	≥ 15 s
2	250° C	≥ 15 s
3	350° C	≥ 15 s
4	500° C	≥ 15 s

### EN12477 WELDERS RISK

Requirements and test methods for gloves used for manual welding of metals, for cutting and related techniques. Welder gloves are ranked in two types: B when great dexterity is required (e.g.: TIG welding), and A for other welding processes.



**EN ISO 374-1** **AGAINST THE RISKS OF MICRO-ORGANISMS & CHEMICAL RISKS**

Standard EN ISO374-1, protective gloves against chemicals and micro-organisms, specifies the performance requirements required for gloves for protecting users against chemical products and/or micro-organisms and defines the terms to be used:

- **Penetration** (tested as per standard EN374-2): Diffusion of water or air, to check the impermeability, on a non-molecular level, of a chemical product and/or micro-organism through the porosities, seams, micro-holes or other imperfections present in the material of the protective glove.
- **Degradation** (tested as per standard EN374-4): Determination of the physical resistance of materials to degradation after continuous contact with hazardous chemicals.
- **Permeation** (tested as per standard EN374-3 or EN16523): Process by which a chemical product diffuses through the material of a protective glove, by continuous contact, on a molecular level.

The EN ISO version of standard 374-1, introduces the concept of three types of protection against the permeation of chemicals:

- Type A: The glove gives a performance index to permeation at least equal to 2 for 6 chemical test substances taken from the list of chemicals specified in the standard.
- Type B: The glove gives a performance index to permeation at least equal to 2 for 3 chemical test substances taken from the list of chemicals specified in the standard.
- Type C: The glove gives a performance index to permeation at least equal to 1 for 1 chemical test substances taken from the list of chemicals specified in the standard.

CODE LETTER	CHEMICAL PRODUCT	CAS number
A	Methanol	67-56-1
B	Acetone	67-64-1
C	Acetonitrile	75-05-8
D	Dichloromethane	75-09-2
E	Carbon disulfide	75-15-0
F	Toluene	108-88-3
G	Diethylamine	109-89-7
H	Tetrahydrofurane	109-99-9
I	Ethyl acetate	141-78-6
J	n-Heptane	142-82-5
K	Caustic soda 40 % (NaOH or sodium hydroxide)	1310-73-2
L	Sulphuric acid 96 %	7664-93-9
M	Nitric acid 65%	7697-37-2
N	Acetic acid 99%	64-19-7
O	Ammonium hydroxide 25%	1336-21-6
P	Hydrogen peroxide 30%	7722-84-1
S	Hydrofluoric acid 40%	7664-39-3
T	Formaldehyde 37%	50-00-0

PASSAGE TIME MEASURED (MN)	PERFORMANCE INDEX TO PERMEATION
> 10 mn	1
> 30 mn	2
> 60 mn	3
> 120 mn	4
> 240 mn	5
> 480 mn	6

**EN ISO 374-5** **AGAINST THE DANGERS OF MICRO-ORGANISMS**

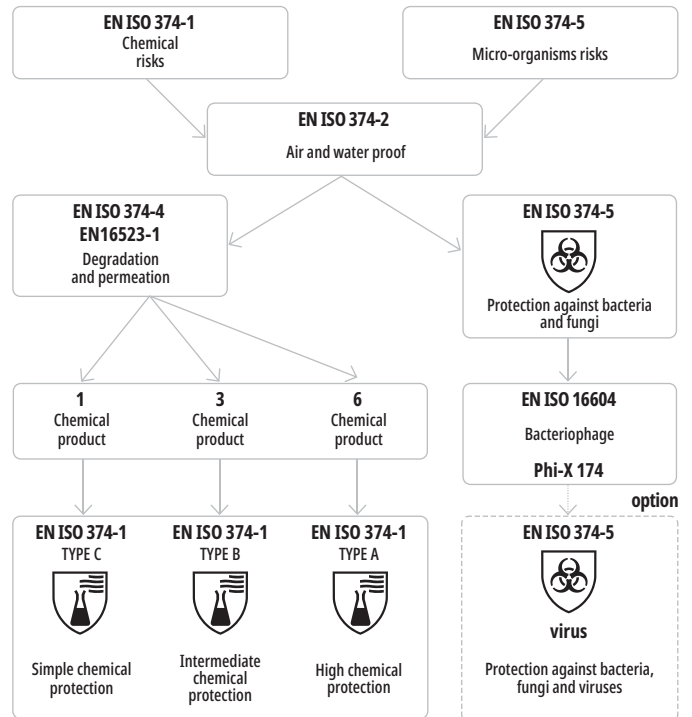
EN ISO 374-5 specifies the requirements and test methods for protective gloves intended to protect the user against microorganisms (mold and bacteria, potentially viruses).

**Penetration of molds and bacteria** (tested according to EN374-2): Test by which the water and airtightness of a glove is checked.

**Penetration of viruses** (tested according to method B of ISO 16604): Process that determines the resistance to penetration by blood-borne pathogens.

- Test method using Phi-X174 bacteriophage.

The glove, depending on its type, will bear the following pictogram:

**Examples of application:**

The field of use is decisive because, depending on the case, the glove may have to combine several properties in order to meet the necessary protection requirements. It is therefore very important to refer to the recommended areas of use and the results of the laboratory tests found in the instructions for use. However, it is recommended to check that the gloves are suitable for the intended purpose by carrying out tests beforehand, because the conditions at the workplace may differ from those of the standard test, depending on the temperature, abrasion and degradation.

**ISO 18889** **AGAINST PESTICIDE RISKS**

Standard ISO 18889 specifies the performance requirements of protective gloves for pesticide operators and re-entry workers.

**G1** gloves are suitable when the potential risk is relatively low. These gloves are not suitable for use with concentrated pesticide formulations and/or for scenarios where mechanical risks exist. G1 gloves are typically single use gloves.

**G2** gloves are suitable when the potential risk is higher. These gloves are suitable for use with diluted as well as concentrated pesticides. G2 gloves also meet the minimum mechanical resistance requirements and are therefore suitable for activities that require gloves with minimum mechanical strength.

**GR** gloves provide protection only to the palm-side of the hand for a re-entry worker who is in contact with dry and partially dry pesticide residues that remain on the plant surface after pesticide application.

**EN421**  **AGAINST IONISING RADIATION AND RADIOACTIVE CONTAMINATION**

This standard provides requirements for protective gloves that are worn in an environment producing ionising radiation or in an environment containing radioactive substances.



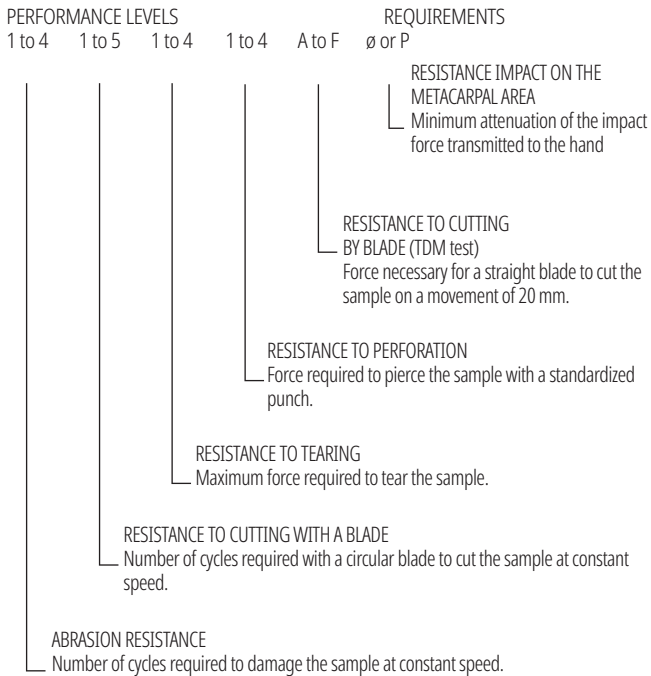
A glove protecting against radioactive contamination must be waterproof according to EN374-2.



A glove that protects against ionising radiation must, in addition to being waterproof according to EN374-2, contain a certain amount of heavy metal such as lead.

**EN388**  
**ISO 23 388**  **MECHANICAL RISKS**

The EN388 standard applies to all types of protective gloves with respect to physical and mechanical aggression from abrasion, cutting from slicing, perforation and tearing. Since the 2016 version of the standard, new optional performance have appeared.



TEST	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
ABRASION RESISTANCE (Number of cycles)	100	500	2 000	8 000	-
BLADE CUTTING RESISTANCE (index)	1,2	2,5	5,0	10,0	20
TEAR RESISTANCE (N)	10	25	50	75	-
PUNCTURE RESISTANCE (N)	20	60	100	150	-

Impact resistance on the metacarpal area: if this performance is claimed, the "P" mark appears.

Marking example:



4233X P

TEST CUT RESISTANCE EN ISO 13997 (TDM)	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
APPLIED FORCE (N)	2	5	10	15	22	30

Examples of marking:

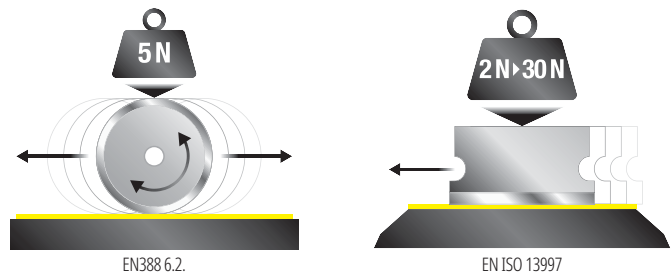


4543D or 4X43D

Cut by blade, 2 test methods:

**EN388 6.2 :** For low to middle risk of cutting. A circular blade on which a constant force of 5 N is applied, moves back and forth until the sample is cut. It measures the number of completed cycles and is credited with the corresponding level.

**EN ISO 13997 :** For materials that blunt the blade during the EN388 6.2 test and/ or are particularly resistant, for high risk of cutting. A straight blade makes a single movement of 20 mm with a force of 2N, the test is repeated with a different force as many times as necessary until the sample is cut. A level corresponding to the force required to cut the sample is assigned. This method better represents the usage situations that present a high risk of cutting.



**ANSI ISEA (US American National Standards Institute) 105** Classification and specifications for the protection of the hand. Part 5.11. cut resistance Weight necessary for a straight blade to cut the sample in a single movement.

Weight (g)	≥ 200	≥ 500	≥ 1000	≥ 1500	≥ 2200	≥ 3000	≥ 4000	≥ 5000	≥ 6000
2011 version - levels	1	2	3	4	5	-	-	-	-
2016 version - levels	A1	A2	A3	A4	A5	A6	A7	A8	A9

**EN ISO 10819**  **VIBRATION-REDUCING EFFECTS**

Standard **EN ISO 10819** specifies performance requirements for vibration attenuation through gloves. The vibration-reducing material must also satisfy thickness and consistency requirements. It should be noted that these gloves can reduce but not eliminate health risks associated with hand-transmitted vibration exposure.

Vibration transmissibility in one-third-octave frequency bands from 25 to 200Hz must be equal to or less than 0.90. The one calculated in one-third-octave frequency bands from 200 to 1250 Hz must be equal to or less than 0.60.



**CHEMICAL RESISTANCE TABLE**

This table provides only general information. Be careful! Glove resistance is influenced by other factors such as temperature, chemical product concentration, thickness, immersion time, and others. For specific use conditions, we recommend testing the glove prior to use.


<http://gloves.deltaplus.eu>

	CAS number	Natural latex	Neoprene	Nitrile	PVC vinyl
20% nitric acid	7697-37-2	**	**	*	*
30% and 5% hydrochloric acid	7647-01-0	***	***	***	***
30% formaldehyde	50-00-0	***	***	***	***
30% hydrofluoric acid	7664-39-3	**	***	***	**
50% acetic anhydride acid	/	***	***	***	***
85% lactic acid	/	*	***	***	***
85% triethanolamine	102-71-6	***	***	***	***
90% formic acid	64-18-6		**	*	*
Acetaldehyde	75-07-0	***	***	*	*
Acetone	67-64-1	***	**		
Alcoholic beverages	/	***	***	***	***
Ammonium acetate	631-61-8	***	***	***	***
Ammonium carbonate	10361-29-2	***	***	***	***
Ammonium chloride	12125-02-9	***	***	***	***
Amyl acetate	/		*	*	*
Amyl alcohol	71-41-0	***	***	***	***
Aniline	62-53-3	**	**	*	*
Animal fats	/	*	***	***	***
Asphalt	/		*	***	***
Beet-root	/	***	***	***	***
Benzaldehyde	100-52-7			*	*
Benzene	71-43-2			*	*
Benzyl alcohol	100-51-6	*	**	**	**
Bichromate of potash	7778-50-9	*	***	***	***
Bleach	/	***	***	***	***
Borax	/	***	***	***	***
Brake oils (lockheed)	/	*	***	***	*
Bromides	/	***	***	***	***
Butter	/		***	***	*
Butyl acetate	123-86-4		*	*	*
Butyl alcohol (or n-butanol)	71-36-3	***	***	***	***
Calcium acetate	62-54-4	***	***	***	***
Calcium chloride	10043-52-4	***	***	***	***
Calcium fluophosphate	/	***	***	***	***
Calcium hydrate	1305-62-0	***	***	***	***
Calcium nitrate	10124-37-5	***	***	***	***
Carbolic acid	/	*	**	**	**
Carbon tetrachloride	56-23-5		*	**	*
Castor oil	/		***	***	***
Chlorinated lime	7778-54-3	***	***	***	***
Chlorine	7782-50-5		***	***	***
Chloroacetone	/	***	***		
Chloroform	67-66-3		*	**	**
Chromic acid	7738-94-5			*	**
Citric acid	77-92-9	***	***	***	***
Concentrated ammonia (aqueous solution)	1336-21-6	***	***	***	***
Concentrated boric acid	10043-35-3	***	***	***	***
Concentrated laundry potash	/	***	***	**	***
Concentrated laundry soda	/	***	***	*	**
Concentrated sulphuric acid	7664-93-9		*		**
Cresote	8001-58-9	*	***	***	***
Cresol	1319-77-3		***	***	***
Crystallisable acetic acid	64-19-7	***	***	**	*
Cutting oils	/		***	***	***
Cyclohexane	110-82-7		*	**	**
Cyclohexanol	108-93-0	***	***	***	***
Cyclohexanon	108-94-1	*	*		
Diacetone alcohol	/	***	***		*
Dibutyl ether	142-96-1		*		
Dibutyl phthalate	84-74-2	**	*	***	***
Diehandiamine	111-42-2	***	***	***	***
Diesel oils	/		*	***	*
Diluted sulphuric acid (battery)	/	***	***	***	***
Diocetylphthalate	117-81-7	**	***	***	***
Dyes (hair dyes)	/	***	***	***	***
Ethyl acetate	141-78-6		*	*	*
Ethyl alcohol (or ethanol)	64-17-5	***	***	***	***
Ethylamine	75-04-7	*	*	***	*
Ethylaniline	/	*	***	***	*
Ethylene dichloride	107-06-2			*	*
Ethylene glycol	107-21-1	***	***	***	***
Fertilisers	/	***	***	***	***
Fish and shellfish	/	*	***	***	*
Fixing agents	/	***	***	***	***
Fluorides	/	***	***	***	***
Formaldehyde	50-00-0	***	***	***	***
Fuel oil	/		*	***	*
Fuels	/		*	***	*
Furoil (furfural or furfuraldehyde)	98-01-1	***	***		
Gas-oil	/		*	***	*
Gasoline	/		**	***	*
Glycerin	56-81-5	***	***	***	***
Glycerothalic paint	/		*	***	*
Glycols	107-21-1	***	***	***	***
Hair bleaching agents	/	***	***	***	***
Hair-curling products	/	***	***	***	***
Hexane	110-54-3		*	***	*
Household detergents	/	**	***	**	**
Hydraulic fluids (esters)	/	***	***	***	*
Hydraulic oils (petrol)	/		*	***	*
Hydrobromic acid	10035-10-6	***	*	*	*
Hydrogen peroxide	/	*	***	***	***
Isobutyl alcohol (Isobutanol)	78-83-1	***	***	***	***

	CAS number	Natural latex	Neoprene	Nitrile	PVC vinyl
Isobutyl ketone	/	***	***		*
Kerosene	/		*		*
Lard oil	/		***	***	*
Linseed oil	/		***	***	*
Lubricants oils	/		*	***	*
Magnesia	1309-48-4	***	***	***	***
Methyl acetate	79-20-9	*	***	*	*
Methyl alcohol (or methanol)	67-56-1	***	***	***	***
Methyl ethyl ketone	/	***	**		
Methyl isobutyl ketone	/	**	*		
Methyl salicylate	119-36-8	***	***	***	***
Methylamine	74-89-5	***	**	***	***
Methylaniline	100-61-8	*	*	***	***
Methylcyclopentane	96-37-7		*	***	*
Methylene chloride	75-08-2		*	*	*
Methylformiate	/	*	***	*	*
Milk and dairy products	/	*	***	***	***
Mineral greases	/		*	***	*
Mono ethanol amine	141-43-5	***	***	***	***
Naphta	/		*	***	*
Naphtalene	91-20-3		*	**	*
N-butylamine	109-73-9	***	***	***	***
Nickel chloride	7718-54-9	***	***	***	***
Nitrate of ammonium	6484-52-2	***	***	***	***
Nitrate of potassium	7757-79-1	***	***	***	***
Nitrobenzene	98-95-3		*	*	*
Nitrohydrochloric acid	/		**	*	*
Nitropropane	/	***	**	*	*
Non-alcoholic beverages	/	***	***	***	***
Octyl alcohol	111-87-5	*	***	***	*
Oleic acid	112-80-1	*	***	***	*
Olive oil	/		***	***	*
Oxalic acid	144-62-7	***	***	***	***
Paraffin oil	/		*	***	*
Peanut oil	/		***	***	*
Perfumes and essences	/	***	***	***	***
Petroleum ether	/		**	***	***
Petroleum products	/		*	**	*
Petroleum spirit	/		**	***	*
Phenyl chloride	108-90-7	*	*	*	*
Phosphates of calcium	10103-46-5	***	***	***	***
Phosphoric acid	7664-38-2	***	***	***	***
Polyester resins	/		*	**	*
Potash flakes	/	***	***	**	***
Potassium acetate	127-08-2	***	***	***	***
Potassium bicarbonate	298-14-6	***	***	***	***
Potassium carbonate	584-08-7	***	***	***	***
Potassium chloride	7447-40-7	***	***	***	***
Potassium cyanide	151-50-8	***	***	***	***
Potassium manganate	7722-64-7	***	***	***	***
Potassium phosphates	/	***	***	***	***
Potassium sulphate	7778-80-5	***	***	***	***
Poultry	/	*	***	***	***
Propylene dichloride	78-87-5			*	*
Quick lime	/	***	***	***	***
Shampoos	/	***	***	***	***
Silicates	/	***	***	***	***
Slaked lime	/	***	***	***	***
Soda flakes	/	***	***	*	*
Sodium bicarbonate	144-55-8	***	***	***	***
Sodium bisulphite	7631-90-5	***	***	***	***
Sodium carbonate	497-19-8	***	***	***	***
Sodium chloride	7647-14-5	***	***	***	***
Sodium chlorite	7681-52-9	***	***	***	***
Sodium nitrate	7631-99-4	***	***	***	***
Sodium phosphates	/	***	***	***	***
Sodium sulphate	7757-82-6	***	***	***	***
Soybean oil	/		***	***	*
Stannic chloride	/	*	***	***	***
Stearic acid	57-11-4	**	***	**	**
Styrene	100-42-5		*	*	*
Sulphites, bisulphites, hyposulphites	/	***	***	***	***
Sulphuric ether (pharmacy)	/	*	***	***	*
Tartaric acid	/	***	***	***	***
Tetrachlorethylene	127-18-4		*	**	**
THF = tetrahydrofuran	109-99-9	**	*		*
Toluene	108-88-3	*	*	**	*
Tributyl phosphate	126-73-8	*	**	**	*
Trichlorethylene	79-01-6		*	*	*
Triocetyl phosphate	1330-78-5	***	**	***	**
Trinitrobenzene	/		*	**	*
Trinitrotoluol	/		*	**	*
Triphenyl phosphate	115-86-6	*	***	***	*
Turbine oils	/		*	***	*
Turnipseed oil	/		*	***	*
Turpentine	/		*	***	*
Vinegar and condiments	/	***	***	***	**
Washing powders	/	***	***	***	***
Water paint	/	***	***	***	***
Weed killers	/	***	***	***	***
Wood turpentine	/		*	***	*
Xylene	/		*	**	*
Xylophene	/		*	***	*
Zinc sulphate	7733-02-0	***	***	***	***

Not recommended Average \* Good \*\* Very good \*\*\*



## FOOD COMPATIBILITY



### ▶ FOOD COMPATIBILITY IS GOVERNED BY:

Regulation (EC) N° 1935/2004 of the European Parliament and of the Council of 27th October 2004 on materials and articles intended to come into contact with foodstuffs.

Materials and articles must be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

- Endanger human health ;
- Bring about an unacceptable change in the composition of the food or a deterioration in the organoleptic characteristics thereof.

Food contact of plastic materials is governed by Regulation (EU) No 10/2011 and the related requirements.

Materials PVC/Vinyl or even Latex/Nitrile gloves (unless local legislation exists) are directly subject to these regulations.

They define:

- Positives lists of authorized constituents;
- The purity criteria applicable to some of these constituents;
- Special migration limits in foodstuffs for certain constituents;
- Maximum residual quantities of some constituents in the material;
- An overall migration limit in foods.
- A limit of metal content for plastic materials and objects.

Annex III of Regulation (EU) 10/2011 provides the list of stimulants to be used for testing migration of constituents of plastic materials and articles intended to come into contact with foodstuffs:

- Aqueous foods (pH > 4.5): Simulants A, B and C.
- Acid food (pH ≤ 4.5): Simulant B;
- Alcoholic foods (≤ 20%): Simulant C;
- Alcoholic foods (> 20%): Simulant D1.
- Fatty foods: Simulants D1 and D2.
- Foods containing free surface fats: Simulant D2.
- Dry foods: Stimulant E.

## DISPOSABLE GLOVES

Standard EN455 defines the quality requirements for non-reusable medical gloves.

- 1 - **Detection of holes:** Airtightness test.
- 2 - **Physical properties:** Verification of the size, thickness and strength of the glove.
- 3 - **Biological evaluation:** Verification of the conformity of the materials.



## INTERNATIONAL MAINTENANCE CODE FOR ARTICLES

TEXTILE	
	No treatment.
	Moderate treatment.
	Very light treatment.
WASHING	
	Maximum temperature 40°C. Normal mechanical treatment. Normal temperature rinsing. Normal spinning.
	Maximum temperature 40°C. Reduced mechanical treatment. Rinse at gradually decreasing temperature. Reduced spinning.
	Wash by hand. No machine washing. Maximum temperature 40°C. Treat with care.
	Do not wash. Treat with care when wet.
DRYING	
	Can be dried in rotating drum dryer. Normal program.
	Can be dried in rotating drum dryer. Moderate, low temperature program.
	Do not dry in rotating drum dryer.
CHLORINATION	
	Chlorination (chlorine bleach).
	Chlorination possible solely in cold, diluted solution.
	No chlorination.
IRONING	
	Iron at the maximum iron sole plate temperature of 200°C.
	Iron at the maximum iron sole plate temperature of 150°C.
	Iron at maximum iron sole plate temperature of 110°C. Steam treatment presents risks.
	Do not iron. Steam treatment is forbidden.
DRY-CLEANING	
	Dry cleaning. The circle stands for dry-cleaning for textile articles (leather and fur articles are excluded). It contains information on the various dry cleaning treatments.
	Dry-cleaning prohibited.



## CHEMICAL PROTECTIVE CLOTHING



EN14126

### ▶ PROTECTIVE CLOTHING AGAINST INFECTIVE AGENTS

This standard specifies the requirements and test methods concerning reusable protective clothing for limited use providing protection against infective agents.

Associated with standards for protective clothing against chemical products, the letter B is added after the garment type.

Examples: TYPE 6-B / TYPE 5-B / TYPE 4-B / TYPE 3-B



EN13034

TYPE 6

### ▶ PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Requirements for chemical protection clothing offering limited performance against liquid chemical products (type 6 equipment), including clothing for partial body protection (Type PB [6]).

This standard sets out the minimum requirements for limited use and reusable limited performance chemical protective clothing. Limited use chemical protective clothing is intended for use in cases of a potential exposure to **light sprays, liquid aerosols** or low-pressure, **low-volume splashes**, against which a complete liquid permeation barrier (at the molecular level) is not required.



EN ISO 13982-1

TYPE 5

### ▶ PROTECTIVE CLOTHING AGAINST SOLID PARTICLES

Performance requirements for protective clothing against chemical products offering full body protection against air-borne solid particulates (type 5 clothing).

This standard sets out the minimum requirements for chemical protection clothing resisting penetration of solid particulates suspended in air (type 5). This clothing offers full body protection, including the torso, arms and legs, such as one or two-piece coveralls, with or without hood or face-shield, with or without foot protection.



EN14605

TYPE 4

TYPE 3

### ▶ PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Requirements for chemical protection clothing with liquid-tight (**type 3**) or spray-tight (**type 4**) connections, including items providing only partial body protection (**types PB [3] and PB [4]**).

This standard sets out the minimum requirements for the following types of limited use and re-useable chemical protective clothing:

- Clothing protecting the full body with liquid-tight connections between the various clothing parts (**Type 3: liquid-tight clothing**);
- Clothing protecting the full body with spray-tight connections between the various clothing parts (**Type 4: spray-tight clothing**);

Note: These standards were formerly entitled EN1512 (Type 4) and EN1511 (Type 3).

STANDARD	TYPE CHEMICAL	PROTECTION
EN13034	6	Against splashes
EN ISO 13982-1	5	Against dust (asbestos)
EN14605	4	Against mists
EN14605	3	Against sprays

### EXAMPLES OF APPLICATIONS

Applications	Risks	Level of protection	Product
Work/Maintenance	Fouling	Category I / Non EPI	PO106 PO109
Industrial cleaning	Accidental exposure to spray of chemical substances (splashes or dry particules)	● Type 6 ● Type 5	DT115 DT221 DT115CV DT125 DT215 DT117 DT215CV
		● Type 4	DT119 DT250
Removal or encapsulation asbestos work	Exposure to dust Asbestos fibers	● Type 5 with waterproof bands	DT216
Work in environments with explosive risks	Handling of products that can generate static electricity	● Type 6 ● Type 5 EN ISO 14116 EN 1149-5	DT223
Agriculture and horticulture (Handling of fertilizers...)	Contact with sprayed liquids	● Type 4	DT119 DT250
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides)	Contact with weakly concentrated phytosanitary sprays	● Type 4 EN ISO 27065	DT119
Paint spraying (Solvents / Preparation / Mixing)	Application of chemicals with spray gun > low pressure (Type 6) > high pressure (Type 4)	● Type 6	DT125 DT117
		● Type 4	DT119 DT250
Industrial cleaning of dangerous products	Risk of chemical splashes with continuous jet	● Type 3	DT300
Laboratories / Chemical Industries	Risk of chemical splashes with continuous jet	● Type 3	DT300
Emergency / Rescue Personnel	Bacteriological contamination	● Type 4-B	DT119 DT250
		● Type 3-B	DT300



TESTS		Level of protection			
General performance	Tests & Specific performance	3 <sup>a</sup>	4 <sup>a</sup>	5	6 <sup>a</sup>
		Performance requirements for the whole garment	Internal pressure	-	-
Penetration by a jet of liquid	-		-	X	-
Penetration by a jet of liquid	X		-	-	-
Penetration by a spray (liquid spraying)	-		X	-	-
Against solid particles	-		-	X	-
Performance requirements for seams and joints	Penetration by a spray (light spraying)	-	-	-	X
	Mechanical resistance	X	X	X	X
Performance requirements for the constituent materials of the garment	Resistance to permeation and penetration by liquids	X	X	-	-
	Abrasion / Tearing / Perforation	X	X	X	X
	Resistance to tensile strength	X	X	-	X
	Resistance to cracking by bending	X	X	X	-
	Resistance to cracking by bending at -30°C	X Optional	X Optional	-	-
	Resistance to penetration by liquids	X	X	-	-
	Impermeability to liquids (repulsion)	-	-	-	X
	Repulsion to liquids	-	-	-	X



a - When the protection equipment only protects certain parts of the body (torso, arms, legs), only the performance requirements for the constituent materials of the garment are required (type 6, 4 and 3).

## EN ISO 27065 PROTECTIVE CLOTHING WORN BY OPERATORS APPLYING LIQUID PESTICIDES.

Level C1 protective clothing is suitable when the potential risk is relatively low. Level C1 protective clothing provides the minimum protection and is not suitable for the handling of concentrated pesticide formulations. It can be used as basic protective clothing with other items when the potential risk is relatively higher.

Level C2 protective clothing, including partial body protection, is suitable when it has been determined that the protection required is greater than that provided by level C1 protective clothing. C2 level protective clothing generally offers a balance between comfort and protection. This protective clothing is not suitable for the handling of concentrated pesticide formulations. It can be used as basic protective clothing with other items when the potential risk is relatively higher.

Level C3 protective clothing, including partial body protection, is suitable when it has been determined that the potential risk is high. For level C3 protective clothing, precautionary measures, such as short-term use, are necessary, as these clothing can generate excessive heat, leading to exhaustion and heat stress. Level C3 protective clothing, including partial body protection, is suitable for the handling of diluted pesticides as well as concentrated pesticides.

The risk incurred should be assessed according to the toxicity of the phytosanitary product (refer to its labelling) and the degree of exposure to the operator. For example, it is easy to understand that the degree of operator exposure will be much higher with aerial spraying towed by an open cab tractor than with manual trigger spraying.

## HEAT PROTECTIVE CLOTHING

EN ISO 11611



A1 Class 2

### PROTECTION USED IN WELDING AND ALLIED PROCESSES

This standard specifies the performance requirements for protective clothing for use by operators in welding and allied processes with comparable risks.

This type of protective clothing is intended to protect the wearer against molten metal splash, short contact with flame and UV radiation. It is intended to be worn at ambient temperature, continuously for up to 8 hours.

Class 1	protection against low risks during welding techniques and situations producing fewer projections and low radiant heat.
Class 2	protection against higher risks during welding techniques and situations producing more projections and a higher radiant heat.

### EN ISO 14116 PROTECTION AGAINST FLAME

The standard specifies the performance requirements for materials, material assemblies, and protective clothing with limited flame spreading to reduce the risk that a garment will burn on occasional and short term contact with small flames, thus constituting a hazard in itself.

This standard is not appropriate where, in addition to flame protection, heat protection is required. Instead, international standards such as ISO 11612 should be used.

The performance level is indicated and explained on the garment's label

EN ISO 11612



A1 B1 C1 D1 E1 F1

### PROTECTION AGAINST HEAT AND FLAME

**Protection against heat and flame.**

This standard specifies the performance requirements of materials and protective clothing against heat and flames. They apply to clothing made of soft material, designed to protect the human body except the hands against heat and/or flame.

Tested are:

Test	Code	Performances
Limited flame spread	A	A1 and/or A2
Convective heat	B	B1 to B3
Radiant heat	C	C1 to C4
Molten aluminium splash	D	D1 to D3
Molten metal splash	E	E1 to E3
Contact heat	F	F1 to F3



## TECHNICAL PROTECTIVE CLOTHING

### EN ISO 13688

#### ▶ GENERAL REQUIREMENTS

Reference standard, not for use alone, but only in association with another standard containing the protection performance requirements.

This standard specifies general performance requirements for ergonomics, innocuousness, size designation, durability, ageing, compatibility and marking of protective clothing and the information to be supplied by the manufacturer with the protective clothing.



### EN1149-5

#### ▶ PROTECTIVE CLOTHING TO DISSIPATE STATIC ELECTRICITY

This European Standard specifies requirements for materials and the design of protective electrostatic dissipation clothing used in conjunction with a grounded system in order to prevent incendiary discharges. **WARNING:** These requirements may be insufficient in oxygen enriched flammable environments. This standard is not applicable for protection against mains voltages.

The control of undesirable static electricity on the person is often necessary.

The electrostatic potential may, indeed, have serious consequences on the charged individual, because it can be high enough to cause dangerous sparks.

After a risk assessment, the wearing of protective electrical dissipation clothing may be necessary. The use of clothing certified according to EN1149-5 is then adapted.

The ATEX Directive 1999/92/EC, in its Annex II-A-2.3, requests that workers be equipped with work clothes made of materials that do not produce electrostatic discharges that can ignite explosive environments.

The electrostatic potential can also affect equipment sensitive to electric discharge. Antistatic clothing is often used on electronic manufacturing sites, assembling semiconductors for example. Finally, they are used on sites with controlled atmospheres such as automotive paint workshops, to avoid the emission of particles that may be deposited on the body paint.

The antistatic charge dissipation can be provided by a process limiting the build up of charge, or by adding carbon or metal wires. People wearing protective electrostatic charge dissipation clothing must always be grounded with a resistance of less than  $10^9\Omega$ , for example, by wearing appropriate footwear such as the safety shoes stated in EN ISO 20345, or by other suitable means.



### EN ISO 11393

#### ▶ PROTECTION FOR USERS OF HAND-HELD CHAINSAWS

This standard specifies the requirements to be used to assess the resistance of protective clothing to cutting by hand-held chainsaws. It is divided into several parts:

**EN ISO 11393-1** : Specifies the cutting tests following 4 speeds

**EN ISO 11393-2** : Specifies the requirements for leg protectors

**EN ISO 11393-3** : Specifies the requirements for protective footwear

**EN ISO 11393-4** : Specifies the requirements for protective gloves

**EN ISO 11393-5** : Specifies the requirements for protective gaiters

**EN ISO 11393-6** : Specifies the requirements for upper body protectors

The cut tests are conducted using 4 chain speeds:

16 m/s	Class 0
20 m/s	Class 1
24 m/s	Class 2
28 m/s	Class 3

The protective zone on leg protectors is coded using three letters A, B or C, corresponding to the coverage surface of the cut-proof material (Type A, Type B or Type C).

#### Marquages :

##### EPICEA 3



EN ISO 11393-6

Class 0

##### MELEZE 3



EN ISO 11393-2

Type A - Class 1



### EN1073-2

#### ▶ PROTECTIVE CLOTHING AGAINST RADIOACTIVE CONTAMINATION

This standard specifies the requirements and test methods for non-ventilated protective clothing against radioactive contamination in the form of particles. Clothing of this type is designed only to protect the body, the arms and the legs of the wearer, but it may be used with accessories that protect other parts of the wearer's body (for example, boots, gloves, respiratory protective device - APR).

The garments are classified according to their nominal protection factor (ratio between the concentration of test particles in the ambient atmosphere and the concentration of test particles inside the garment), determined in relation to the total inward leakage (ratio between the concentrations of test particles inside the garment and inside the test chamber).

The classes are as follows:

CLASS	NOMINAL PROTECTION FACTOR
3	500
2	50
1	5



### EN ISO 20471

#### ▶ HIGH VISIBILITY CLOTHING

This standard specifies the requirements for protective clothing aiming to signal the presence of the wearer visually, so that he may be detected and seen in hazardous situations, in all conditions of daylight, and night under illumination of car headlights.

There are three classes of high-visibility clothing. Each class must have minimum surfaces of visible material constituting the garment; the higher the class, the more visible the garment:

	CLASS 3	CLASS 2	CLASS 1
Background material (Fluorescent)	0,80 m <sup>2</sup>	0,50 m <sup>2</sup>	0,14 m <sup>2</sup>
Retroreflective material (Bands)	0,20 m <sup>2</sup>	0,13 m <sup>2</sup>	0,10 m <sup>2</sup>

#### Marking:

**X** : Class of high visibility surface (from 1 to 3)

### EN ISO 20471



Max. 25x

### EN ISO 20471

**2** : Class of the visibility surface (1 to 3)

Max. 25x: Optional marking, number of maximum washes authorized for the model.




On this example: 25 washes maximum (see indication of service temperature on the garment tag).



**EN17353**

**▶ IMPROVED VISIBILITY EQUIPMENT FOR MEDIUM RISK SITUATIONS**

This standard specifies the requirements for enhanced visibility equipment in the form of a garment, or device, capable of visually signalling the presence of the user. Enhanced Visibility Equipment is intended to provide visibility of the wearer in low or medium risk situations in all daylight conditions and/or under the illumination of vehicle headlights or headlights in the dark. This standard does not apply to high visibility equipment in high risk situations which are covered by EN ISO 20471.

TYPE A	TYPE B	TYPE AB
 Daylight	 Dark conditions	 Daylight, twilight and dark conditions
Equipment using fluorescent material	Equipment using retroreflective material	Equipment using fluorescent material and retroreflective or combined performance material
	B1 (free hanging)	
	B2 (limbs)	AB2
	B3 (on torso or torso and limbs)	AB3

**Minimum surface in m<sup>2</sup> for B1 and B2 type:**

	B1	B2
Retroreflective material	0,003	0,018

**Minimum surface in m<sup>2</sup> for type A, B3 and AB type:**

Height h of the user	h < 140 cm			h > 140 cm		
	A	B3	AB	A	B3	AB
Fluorescent material	0,14	-	0,14	0,24	-	0,24
Retroreflective material	-	0,06	0,06	-	0,08	0,08
Combined performance material	-	-	0,14	-	-	0,24

**FOUL WEATHER PROTECTIVE CLOTHING**


**EN342 ▶ PROTECTIVE CLOTHING AGAINST COLD**

This standard specifies the requirements and performance test methods for protective clothing against cold at temperatures lower than -5°C (cold store / extreme cold workers). There are two types of garment:

- Garments:** covering part of the body, e.g. parka, jacket, coat.
- Suits:** covering the whole body (trunk + legs), e.g. coveralls, parka & dungarees.

- X (undergarment B/C/R) : /<sub>cler</sub> of the garment
- X : Class of air permeability, AP
- X : Class of resistance to water penetration WP (Optional)

**NORRLAND**

 EN342

0,358 m<sup>2</sup>.K/W (B)  
3  
X



Insulation I <sub>cler</sub> M <sup>2</sup> .K/W	Wearer in movement with an activity							
	Light 115 W/m <sup>2</sup>				Medium 170 W/m <sup>2</sup>			
	Air speed							
	0.4 m/s		3 m/s		0.4 m/s		3 m/s	
	8h	1h	8h	1h	8h	1h	8h	1h
0.265	3	-12	9	-3	-12	-28	-2	-16
0.310	-2	-18	6	-8	-18	-36	-7	-22
0.390	-9	-28	0	-16	-29	-49	-16	-33
0.470	-17	-38	-6	-24	-40	-60	-24	-43
0.540	-24	-45	-11	-30	-49	-71	-32	-52
0.620	-31	-55	-17	-38	-60	-84	-40	-61



**EN14058** **PROTECTIVE CLOTHING AGAINST COOL ENVIRONMENTS**

This standard specifies the requirements and performance test methods for protective garments (vests, jackets, coats, trousers) against cool environments. These garments are for use in moderate low temperatures (**-5°C and over**) to protect against local body cooling. Not only for outdoor use such as in the construction industry; may also be used for indoor activities, such as in the food processing industry. These garments are not always necessarily made of air impermeable or watertight materials. Therefore, in this European standard, these requirements are optional.

X : Class of heat resistance,  $R_{ct}$   
 X : Class of air permeability, AP  
 X :  $I_{cler}$  of the garment (Optional)  
 X : Class of resistance to water penetration WP (Optional)

ALASKA2
EN14058
3
3
0,285 m <sup>2</sup> .K/W
X

Insulation $I_{cler}$ M <sup>2</sup> .K/W	Wearer standing still, 75 W/m <sup>2</sup>			
	Air speed			
	0.4 m/s		3 m/s	
	8h	1h	8h	1h
0.170	21	9	24	15
0.265	13	0	19	7
0.310	10	-4	17	3

**EN343** **PROTECTIVE CLOTHING AGAINST RAIN**

This standard specifies the requirements and test methods applicable to the materials and seams of protective clothing against foul weather (for example precipitation in the form of rain or snow), fog and ground humidity.

y : Class of resistance to water penetration (1 to 4), Wp  
 y : Class of water vapour resistance (1 to 4),  $R_{et}$   
 R : Water tower test on whole garment (optional)

FINNMARK2
EN343
3
1
X

**DEFINITIONS :****THERMAL RESISTANCE ( $R_{ct}$ ) IN M<sup>2</sup>.K/W:**

Measurement of the thermal insulation provided.  
 Divided into 4 classes (from 1 to 4) from the least insulating to the most insulating.  
 The higher the value, the greater the thermal insulation

**AIR PERMEABILITY (AP) IN MM/S:**

Determines the complex's permeability to air.  
 Divided into 3 classes (from 1 to 3) from the least airtight to the most airtight.

**RESULTANT EFFECTIVE THERMAL INSULATION:**

Measured on moving dummy ( $I_{der}$ ).  
 The thermal insulation coefficient, expressed in m<sup>2</sup>.K/W, is used to determine the optimum usage temperature of the garment in relation to the individual's activity and his exposure time.

Thermal insulation is measured with undergarments of type:  
 - **(B) for ensembles** (Undershirt with long sleeves, long underpants, socks, bootee + thermo jacket, thermopants, knitted gloves, balaclava)  
 - **(R) for garments** (Undershirt with long sleeves, long underpants, socks, bootees, jacket, trousers, shirt, knitted gloves, balaclava)  
 - **(C) provided by the manufacturer**

**WATER VAPOUR RESISTANCE ( $R_{et}$ ) IN (M<sup>2</sup>.PA)/W :**

Measures the evaporative resistance, i.e. the product's obstacle to the passage of water vapour, or the barrier it offers to evaporation of transpiration on the surface of the skin. The higher a product's water vapour resistance, the greater this product's barrier to the passage of water vapour:

A breathing product has a low water vapour resistance.

Divided into 4 levels (from 1 to 4) from the least breathable to the most breathable.

Water vapour resistance $R_{et}$ Classe	Classe			
	1	2	3	4
$\frac{M2 - Pa}{W}$	$R_{et} > 40$	$25 < R_{et} > 40$	$15 < R_{et} > 25$	$R_{et} \leq 15$

**RESISTANCE TO WATER PENETRATION (WP) IN PASCAL:**

Measurement of the outer material and seams' resistance to water penetration under a water pressure of (980+/-50) Pa/min.

Divided into 4 levels (1 to 4) from the least impermeable to the most impermeable.

Water penetration resistance WP	Classe			
	1	2	3	4
Specimen to be tested				
Material before treatment	WP ≥ 8 000 Pa	-	-	-
Material after each pre-treatment	-	WP ≥ 8 000 Pa	WP ≥ 13 000 Pa	WP ≥ 20 000 Pa
Seams before pre-treatment	WP ≥ 8 000 Pa	WP ≥ 8 000 Pa	WP ≥ 13 000 Pa	-
Seams after pre-treatment by cleaning	-	-	-	WP ≥ 20 000 Pa

**TOWER TEST:**

Wicking length on sleeves and lower hems	Max 5 cm
Wicking length on trouser hems	Max 10 cm
Wicking length on hood hems	Max 4 cm
Wet tricot area on manikin	0 cm <sup>2</sup>

**KNEE PROTECTION****EN14404** **KNEE PROTECTION**

This European Standard provides the requirements and test methods for protective knee devices used by people that have kneel to carry out their work. This standard does not apply to the knee protection that are medical devices and are designed for sport.

KNEE PROTECTION	
Type 1	Knee protection independent of other product and attached around the leg
Type 2	Plastic foam or other padding inserted in the pockets of trousers or permanently attached to the trousers
Type 3	Devices that are not attached to the body but implemented during the movement of the user. They can be provided for each knee or both knees together
Type 4	Protection of one or both knees, part of devices with additional functions, such as helping to stand or kneel. The knees protection can be worn on the body or independently
Level 0	Knee protectors are supposed to be adapted to flat floors and no resistance to penetration is required
Level 1	Knee protectors are supposed to be suitable for flat floors and resistance to penetration under a force of at least 100 (+/-5) N is required
Level 2	Knee protectors are supposed to be suitable for difficult conditions and resistance to penetration under a force of at least 250 (+/-5) N is required

## SAFETY SHOES-BOOTS

### STANDARDS

#### EN ISO 20344 ▶ TEST METHODS FOR FOOTWEAR

This standard defines the test methods for safety footwear, protective footwear, and occupational shoes.

It may be used only in conjunction with standards EN ISO 20345 and EN ISO 20347, which specify the requirements for the shoes as a function of specific levels of risk involved.

#### EN ISO 20345 ▶ BASIC REQUIREMENTS FOR SAFETY FOOTWEAR

In reference to standard EN ISO 20344, this European standard defines the basic and the additional (optional) requirements for safety footwear for the workplace, marked «S». The safety shoe is equipped with safety toe caps designed to withstand a maximum impact of 200 joules and crushing up to 15 kN.

#### EN ISO 20347 ▶ BASIC REQUIREMENTS FOR OCCUPATIONAL FOOTWEAR

These shoes are different from safety/protective footwear in that they have no protective toe cap for impact and crushing.



#### EN ISO 61340-5-1 ▶ GENERAL REQUIREMENTS - ESD CONTROL FOOTWEAR

This standard specifies the requirements and tests for electrostatic shoes with specific applications. It describes the test methods used to determine the electrical resistance of shoes used to control the electrostatic potential of the user's workstation.

#### EN ISO 20349-1 ▶ REQUIREMENTS AND TEST METHODS FOR PROTECTION AGAINST RISKS IN WELDING AND ALLIED PROCESSES. EN ISO 20349-2

This standard specifies the requirements and tests for protective shoes against heat risks and molten metal splashes as in foundries or welding.

## THE PARTS OF A SHOE



SIZE CORRESPONDANCE TABLE

EU	35	36	37	38	39	40	41	42	43	44	45	46	47	48
UK	2	3	4	5	6	6.5	7	8	9	10	10.5	11	12	13
US	3	4	5	6	7	7.5	8	9	10	11	11.5	12	13	14
cm	23.1	23.7	24.4	25.1	25.7	26.4	27.1	27.8	28.4	29.1	29.7	30.3	31	31.6
mm	231	237	244	251	257	264	271	278	284	291	297	303	310	316

## • SB OR S1 TO S5 OR SBH (SAFETY FOOTWEAR) • OB OR O1 TO O5 OR OBH (OCCUPATIONAL SHOES)

CLASS 1 or 2	EN ISO 20345	EN ISO 20347
<b>ALL MATERIALS</b>	<b>SB</b> : basic properties	<b>OB</b> : basic properties
<b>CLASS 1 - Assembled shoes</b> Leather shoes and other materials, except rubber or polymer shoes	<b>S1</b> : basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	<b>O1</b> : basic properties plus: - closed back - hydrocarbon-resistant sole - anti-static - energy absorbing heel
	<b>S2</b> : the same as S1 plus: - waterproof	<b>O2</b> : the same as O1 plus: - waterproof
	<b>S3</b> : the same as S2 plus: - puncture resistant sole - studded sole	<b>O3</b> : the same as O2 plus: - puncture resistant sole - studded sole
<b>CLASS 2 - Fully moulded shoes</b> All rubber shoes (fully cured*) or all polymer	<b>S4</b> : basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	<b>O4</b> : basic properties plus: - anti-static - energy absorbing heel
	<b>S5</b> : the same as S4 plus: - puncture resistant sole - studded sole	<b>O5</b> : the same as O4 plus: - puncture resistant sole - studded sole
<b>HYBRID SHOES</b> Rubber foot (fully cured) or all polymer (fully moulded) / Top leather upper and other materials	<b>SBH</b> : properties specific to hybrid safety shoes	<b>OBH</b> : properties specific to hybrid work shoes

SYMBOLS FOR INDIVIDUAL SPECIFICATIONS  
EN ISO 20345 / EN ISO 20347 (without toe cap)

Whole shoe or boot	Puncture resistant sole	P
	<b>Electrical properties:</b> Conductive shoe	C
	Antistatic shoe	A
	Insulating shoe	See EN50321
	<b>Resistance to aggressive environments:</b> Heat-insulated sole 150°C sandbox test, 30 minutes of exposure.	HI
	Sole insulated against cold Box test at -17°C for 30 minutes	CI
	Energy absorbing heel	E
	Water-resistant of the whole shoe (waterproof shoes in leather and other materials, class 1)	WR
	Metatarsal impact protection	M
	Ankle protection	AN
Upper	Cut-resistant upper	CR
	Resistance of the rod penetration and water absorption (shoes in leather and other materials, class 1)	WRU
Outsole	Contact-heat resistant outsole 300°C for 60s	HRO
	Oil-resistant outsole	FO

SYMBOLS FOR INDIVIDUAL SPECIFICATIONS  
EN ISO 20349-1 EN ISO 20349-2

Floor types Symbols	Symbols
Resistance to molten metal splashes, with use of aluminum as molten metal during the test. (EN ISO 20349-1)	AL
Resistance to molten metal splashes, with use of cast-iron as molten metal during the test. (EN ISO 20349-1).	FE
250°C sandbox test, 40 minutes of exposure (HI-3). (EN ISO 20349-1)	HI
WG indicates that the footwear complies with the requirements defined for welding footwear. (EN ISO 20349-2)	WG

## RESISTANCE TO SLIPPING

Floor types	Symbols
Hard industrial floors, for indoor use (such as food industry tiled flooring)	SRA
Hard industrial type floors for indoor or outdoor uses (paint or resin type flooring in industry)	SRB
All types of hard floors for multiple uses indoors or outdoors	SRC



## THE FALL ARREST SYSTEM

If there is a risk of falling, it is compulsory to use a protective device against falls from a height. In order of priority: collective type protection (see DELTA PLUS SYSTEMS catalogue), then individual type protection if the first one is not possible.



An **INDIVIDUAL ANTI-FALL SYSTEM** is comprised of at least three elements

- A** HARNESS
- +
- B** FALL ARRESTER
- +
- C** ANCHORAGE POINTS

## FALL ARREST EQUIPMENT

### EN363

Describes the elements and situations of personal protection against falls from height.

### EN364 TEST METHOD

Describes the equipment and test methods for PPE against falls from height.

### EN365 GENERAL REQUIREMENTS FOR THE INSTRUCTIONS FOR USE AND THE MARKING

Describes the markings and information (operating instructions) on or accompanying the PPE against falls from a height.

### **A** HARNESS



#### EN361 FULL BODY HARNESS

Body securing device intended to stop falls. The full body harness can be made of straps, buckles and other elements; set and adjusted in a right way on the body of an individual to secure him during a fall and afterwards.

### **B** FALL ARRESTER



#### EN355 ENERGY ABSORBER

Component of a fall arrest equipment, which guarantees the stop of a fall from a height in safety by reducing the impact of the shock.

**WARNING:** If we associate a lanyard energy absorber, the total length of the entire device must not exceed 2 m.



#### EN360 SELF-RETRACTABLE FALL

Fall arrester with self-locking device and a self-retractable system for the lanyard. An energy reducer (absorber) can be built-in in the equipment.



#### EN353-1 MOBILE FALL ARRESTER ON RIGID ANCHORAGE LINE

Equipment consisting of a mobile fall arrester with self-locking, integral with its rigid anchorage line (rail, cable...). An energy reducer can be built-in on the equipment.

#### EN353-2 MOBILE FALL ARRESTER ON FLEXIBLE ANCHORAGE LINE

Equipment consisting of a mobile fall arrester with self-locking, integral with its flexible anchorage line (rope, cable...). An energy reducer (absorber) can be built-in in the equipment.



## ANCHORAGE POINTS



### EN795 2012 ANCHORAGE DEVICES

Element of a fall arrester system to which a personal protective equipment can be fastened.

**Type A - NON PPE :** Anchor device with one or more stationary anchor points with the need of a structural anchor.

**Type B:** Anchor device with one or more stationary anchor points without the need of a structural anchor.

**Type C - NON PPE :** Anchor device employing a flexible anchor line with maximum deviation of 15°.

**Type D - NON PPE :** Anchor device employing a rigid anchor line with maximum deviation of 15°.

**Type E:** Anchor device for use on surfaces with a maximum slope of 5°.

### EN362 CONNECTOR

Connection element or equipment component. A connector can be karabiner or a snap hook.

**Class A:** Anchorage connector, automatic lock used as the component and designed to be connected directly to a specific type of anchorage.

**Class B:** Primary connector with automatic lock used as the component.

**Class M:** Multi-purpose connector, primary or quick opening, used as a component, which can be loaded along its major axis or minor axis.

**Class Q:** Quick opening connector used in long-term or permanent applications, screw lock. When completely screwed this part is a supporting part of the connector.

**Class T:** Manufactured end connector, automatic lock, designed as part of a subsystem for attachment so that the load is carried in a predetermined direction.

## WORK SITUATIONS

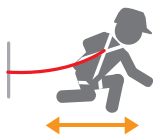
### WORK POSITIONING SYSTEM



### EN358 WORK POSITIONING OR RESTRAINING BELTS AND LANYARDS

A work positioning system consists of components (work positioning belt and lanyard) linked to one another to form a complete equipment.

### RETENUE



### EN358 WORK POSITIONING OR RESTRAINING BELTS AND LANYARDS

### EN354 LANYARDS

Connection elements or equipment component. A lanyard can be in rope made of synthetic fibres, in metallic rope, in strap or in chain.

**CAUTION:** A lanyard without energy absorber must not be used as a fall arrest equipment.

### ROPE ACCESS SYSTEM



### EN12841 ROPE ACCESS SYSTEM

A rope device for work positioning. There are several types of device:

**Type :** Rope adjuster device for safety support that accompanies the user during his changes in position and/or to adjust the safety support length and which automatically locks on the safety support under a static or dynamic load action.

**Type B:** Ascent device for work support, manually operated rope adjustment device which, when attached to a safety support, locks under the action of a load in one direction and slides freely in the opposite direction. A type B device must be used in conjunction with a type A device connected to a separate safety support.

**Type C:** Descending device for work support, manually operated rope adjustment device with friction which allows the user to perform a controlled downward movement and to stop, by releasing, anywhere on the safety support. A type C device must be used in conjunction with a type A device connected to a separate safety support.

### EN813 SEAT HARNESSES

Belts equipped with a ventral point allowing a system of support, restraint, or access by ropes.

### EN358 WORK POSITIONING OR RESTRAINING BELTS AND LANYARDS

### EN354 LANYARDS

### EN12275 MOUNTAINEERING AND CLIMBING EQUIPMENT - CONNECTORS

Safety requirements and test methods.

**Type B:** Primary connector with automatic lock with enough strength to be used anywhere on a safety system.




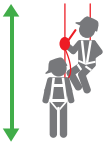






**Type H:** HMS self-closing connector, usually pear-shaped, used to link a mountaineer to a Via Ferrata anchoring system.

**Type K:** Via Ferrata self-closing connector, used primarily for dynamic belaying, HMS type.

**Type D:** Directional connector or combination of one or more connectors with automatic lock and straps, used to ensure that the load is carried in a predetermined direction.

**Type A:** Special anchorage automatic lock connector only used to be directly connected to a special type of anchorage.

**Type Q (Quicklink):** Connector with screw lock. When completely screwed this part is a supporting part of the connector.

<p><b>ROPE ACCESS SYSTEM</b></p>	<p>EN12278  <b>MOUNTAINEERING AND CLIMBING EQUIPMENT - PULLEYS</b> Safety requirements and test methods</p> <p>EN1891  <b>SHEATHED BRAIDED ROPE WITH A LOW COEFFICIENT OF ELONGATION (STATIC ROPES)</b></p> <p>EN341  <b>PPE AGAINST FALLS FROM HEIGHT</b> Descending devices, classified according to the following data  <b>Class A:</b> Descent energy W up to <math>7,5 \times 10^6</math> J  <b>Class B:</b> Descent energy W up to <math>1,5 \times 10^6</math> J  <b>Class C:</b> Descent energy W up to <math>0,5 \times 10^6</math> J  <b>Class D:</b> For a single descent. The descent energy depends on the maximum descent height and the maximum nominal load.</p>
<p><b>RESCUE</b></p> 	<p>EN1496  <b>RESCUE EQUIPMENT</b> Rescue lifting devices. There are several device classes:  <b>Class A:</b> Component or subset of a rescue equipment for the lifting of a person with the help of a rescuer, or on its own from a low point to a high point.  <b>Class B:</b> Analogue device of class A device, but with an additional function of manual control for descent to lower a person over a limited distance of 2 m.</p> <p>EN1498  <b>RESCUE STRAP</b></p> <p>EN341  <b>DESCENDING DEVICES</b></p>
<p><b>OTHER QUALIFYING STANDARDS</b></p>	
<p><b>Recommandations for severals users</b></p>	<p><b>CEN/TS 16415</b> It is not a standard but a recommendation to test the anchors used by 2 or more persons. This technical specification was approved by CEN (European Committee for Standardisation) on July 30, 2012 for a provisional application and allows the use of an anchor by several people simultaneously.</p>
<p><b>Mountaineering and climbing</b></p>	<p>EN567  <b>EQUIPMENT FOR MOUNTAINEERING AND CLIMBING</b> Safety requirements and test methods for blockers.</p> <p>EN12275  <b>MOUNTAINEERING AND CLIMBING EQUIPMENT - CONNECTORS</b></p> <p>EN12278  <b>MOUNTAINEERING AND CLIMBING EQUIPMENT - PULLEYS</b></p>
<p><b>Load securing</b></p>	<p><b>DIRECTIVE 2006/42/CE FOR THE MACHINES OR EQUIPMENTS WITH MOBILE FUNCTION.</b></p>
<p><b>Medical devices</b></p>	<p><b>DIRECTIVE 93/42/CEE - EU REGULATION 2017/745 FOR THE MEDICAL DEVICES OR ACCESSORIES.</b></p>
<p><b>Waterproofing</b></p>	<p><b>EN60529:1991 + A1:2000 + A2:2013</b> The protection index (IP) Classifies the level of protection offered by a material from solid and liquid intrusion. The index format is IPxx where the 1st digit indicates the protection from dust, the 2nd digit the protection from water intrusion.</p>



## HEAD PROTECTION

AIR COLTAN	43	FUEGO	18	M1204V	62
ASO2 CLEAR	9	FUJI2 CLEAR	12	M1300V	63
ASO2 SMOKE	9	FUJI2 GRADIENT	12	M1300V2	63
BADGE-U	40	GALERAS CLEAR	20	M1300VB	64
BALBI 2	31	GALERAS SMOKE	20	M1300VP	64
BARRIER 2	23	GO-SPECS TEC CLEAR	3	M1302BC	65
BARRIER PLATE 2	23	GRANITE PEAK	33	M1302VBC	65
BASALPHA	41	GRANITE WIND	33	M1304V	62
BASGAMMA	33	HARNESS O	35	M1304VW	62
BASWELD	23	HARNESS V	38	M2FP2V	63
BLOW2 CLEAR	8	HEKLA2	19	M2FP2VPLW	63
BLOW2 LIGHT MIRROR	8	HELIUM 2 BLUE BLOCKER	11	M2FP2VW	63
BLOW2 MIRROR	8	HELIUM 2 CLEAR	11	M2FP3V	63
BRAVA2 CLEAR	17	HELIUM 2 DETECTABLE	11	M3FP1	63
BRAVA2 CLEAR AB	17	HELIUM 2 SMOKE	11	M6000 A1	55
BRAVA2 LIGHT MIRROR	17	HESTICKER	41	M6000 P2	55
BRAVA2 MIRROR	17	HM11001U	64	M6000 P2 CLIP	55
BRAVA2 SMOKE	17	INTERHYKIT	46	M6000 P3	55
BRAVA2 YELLOW	17	INTERLAGOS	46	M6000E A2	55
CASOUD 3	25	INTERLAGOS FOLDABLE	46	M6000E ABEK1	55
CASOUD2HE	25	INTERLAGOS LIGHT	47	M6000E PREP2	55
COLTAN	43	INTERLAGOS LIGHT HE	47	M6000E PREP3	55
CONIC DISPLAY	50	INTERLAGOS NB	47	M6100 JUPITER	54
CONIC010	50	IRAYA CLEAR	13	M6200 JUPITER	54
CONIC200	50	IRAYA SMOKE	13	M6400 JUPITER	54
CONIC500	50	IRAYA YELLOW	13	M6400 JUPITER CHEM KIT ABEK P3	55
CONICAP01	49	JUGALPHA	41	M6400 JUPITER MARS KIT A2 P2	55
CONICAP01BR	49	JUGGAMMA	33	M6400 JUPITER SPRAY KIT A2 P3	55
CONICCO200	50	KAIZIO	42	M9000 P3	56
CONICCOPLUS200	49	KILIMANDJARO CLEAR	18	M9000E A2	56
CONICDE010	50	KILIMANDJARO CLEAR AB	18	M9000E A2B2	56
CONICFIR010	48	KILIMANDJARO SMOKE	18	M9000E A2B2E2	56
CONICFIR050	48	KISKA2 CLEAR	16	M9000E A2B2E2K2	56
CONICFIR050 - CONICFIR010	48	KISKA2 SMOKE	16	M9000E A2B2E2K2HGP3	56
CONICFIRDE010	48	LIPARI2 CLEAR	16	M9000E A2B2E2K2P3	56
CONICFIT010	48	LIPARI2 T5	16	M9000E A2B2E2P3	56
CONICFIT100	48	M1100	63	M9000E A2B2P3	56
CONICFIT100 - CONICFIT010	48	M1100V	63	M9000E A2P3	56
CONICMOVE01	49	M1100VB	64	M9000E AX	56
CONICMOVE01BR	49	M1102BC	65	M9000E AXP3	56
CONICPLUS200	49	M1102VBC	65	M9000E B2P3	56
CONICSOF010	48	M1104	62	M9000E E2	56
DEAR BOX	50	M1200	63	M9000E E2P3	56
DIAMOND V	38	M1200V	63	M9000E K2	56
DIAMOND V UP	38	M1200VB	64	M9000E K2P3	56
DIAMOND VI WIND	37	M1200VP	64	M9200 - ROTOR GALAXY	53
DYNAMIC JUGALPHA	41	M1200VPLUS	63	M9300 - STRAP GALAXY	53
DYNAMIC JUGBETA	35	M1200VPW	64	MAGNY COURS 2	45
FILM GOGGLE	21	M1200VW	63	MAGNY HELMET 2	45
FILTER 11	25	M1202BC	65	MENTALPHA	41
FILTER-IN	25	M1202VBC	65	MURIA 1	21
FORESTIER 3	40	M1204	62	NECKALPHA	40



## HEAD PROTECTION

ONYX	35	RUIZ 1 ACETATE	21	VISOR FLASH	29
PACAYA CLEAR	6	SAJAMA	20	VISOR HOLDER	27
PACAYA CLEAR LYVIZ	5	SCREEN	24	VISOR T-GUARD	30
PACAYA CLEAR STRAP	6	SCREEN PLATE	24	VISOR TORIC CLEAR	30
PACAYA CLEAR STRAP LYVIZ	5	SPA 3	47	VISOR TORIC T5	30
PACAYA SMOKE	6	SPIDER REFILL FFP2	60	VISOR-H	27
PACAYA SMOKE LYVIZ	5	SPIDER REFILL FFP2W	60	VISOR-HOLD MINI	27
PACAYA T5	6	SPIDER REFILL FFP3	60	VISOR-U	27
PICO 2	31	SPIDERMASK P2 1+5	60	VISORG	31
PIT-RADIO 3	45	SPIDERMASK P2 X5	60	VISORPC	31
PITON 2 CLEAR	18	SPIDERMASK P2W X5	60	VULCANO2 CLEAR	9
PITON CLEAR	19	SPIDERMASK P3 1+5	60	VULCANO2 PLUS CLEAR	9
QUARTZ I	39	SPIDERMASK P3 X5	60	VULCANO2 SMOKE	9
QUARTZ UP III	39	SUPER QUARTZ	39	WINTER CAP	40
QUARTZ UP IV	39	SUZUKA 2	47	ZIRCON 1	40
RIMFIRE CLEAR	7	THUNDER CLEAR	12		
RIMFIRE MIRROR	7	THUNDER SMOKE	12		
RIMFIRE POLARIZED	7	TOBA 3 T5	25		
RUIZ 1	21	VISONYXPR	35		

## HAND PROTECTION

50MAC	88	DPVE702PG	87	KCA15	128
51FEDF	96	DPVE727	98	KPG10	128
APOLLON W733	94	DPVE730	95	LA500	95
APOLLON WINTER CUT W737	120	DPVE733	99	LA600	113
APOLLON WINTER W735	120	DPVENICUTB04 (DPVENICUT34)	85	LAT50	111
ARC FLASH	129	DPW733	94	NEOCOLOR VE530	110
ATHOS VV902	93	DPW733E	94	NI015	99
ATON W731	98	DPW733N	94	NITREX VE801	112
BOREE VV901	93	DPW736 THRYM	119	NITREX VE802	112
BOROK VV903	121	DPW831	95	NITREX VE803	112
CA515R	127	DS202RP	97	NITREX VE830	112
CA615K	127	EOS FLEX CUT B W921	84	NITREX VE846	112
CBHV2	102	EOS FLEX CUT D W922	73	NYSOS VV904	103
CHEMSAFE PLUS W836	107	EOS FLEX W920	99	PM159	88
CHEMSAFE PLUS WINTER W837	107	EOS NOCUT W910	75	PM160	88
CHEMSAFE W835	106	EOS NOCUT WINTER W913	75	SAFE & STRONG W811	86
COB40	88	EOS W900JA	92	SAFE & TOUCH VV905NO	93
CRYOG	129	FB149	96	TC716	126
CT402	88	FBF15	123	TER250	125
DC103	97	FBF50	123	TER300	125
DCTHI	123	FBN49	97	TERK400	124
DPCBHV2	102	FC115	126	TERK500 XTREM HEAT	128
DPDC103	97	FCN29	97	THEMIS W792 ESD	89
DPFBN49	97	FIB49	102	THRYM W736	119
DPLAT50	111	FIBKV02	102	TIG15K	127
DPTC715	126	GFA115K	127	TOUTRAVO VE509	110
DPV1371	117	GFBLE	97	TOUTRAVO VE510	110
DPVE450	113	HERCULE W750	121	TOUTRAVO VE511	110
DPVE702P	87	HESTIA W702NO	86	TP169	88



## HAND PROTECTION

VE630	88	VENICUT F XTREM CUT - VENICUTF01	72	VENIFISH VE990	111
VE631	88	VENICUT F XTREM CUT TOUCH - VENICUTF02	72	VENIPLUS V1383	117
VE702	87	VENICUT10	86	VENIPLUS V1500	116
VE702GR	87	VENICUTB00	85	VENIPRO VE450	113
VE702P	87	VENICUTB01 (VENICUT32ESD)	83	VENITACTYL V1310	117
VE702PESD	83	VENICUTB02	85	VENITACTYL V1371	117
VE702PG	87	VENICUTB03 (VENICUT33)	85	VENITACTYL V1400B100	116
VE702PGS	87	VENICUTB04 (VENICUT34)	85	VENITACTYL V1400PB100	116
VE702PN	87	VENICUTB05	83	VENITACTYL V1450B100	116
VE702PNG12	87	VENICUTB06 (VENICUT36)	85	VENIZETTE VE920	111
VE726	98	VENICUTB07	83	W704	86
VE727	98	VENICUTD03 (VENICUT53NO)	77	W733G6	94
VE728	98	VENICUTD04 (VENICUT54BL)	77	W914 ARC FLASH	129
VE729	98	VENICUTD05	76		
VE730OR	95	VENICUTD06	76		
VE733	99	VENICUTDX1 (VENICUT5X1)	77		
VENICLEAN V1340	117	VENICUTF03 XTREM CUT - VENICUTF03	72		

## DISPOSABLE WEAR

BLOUSPE	143	DT216	142	PO106	143
BLOUSPO	143	DT221	141	PO109	143
DT111	145	DT223	141	PO110 - PO110BL	144
DT115	142	DT250	139	PO115	144
DT115CV	142	DT300 DELTACHEM	138	SURCHPE	145
DT117	140	DT301 DELTACHEM	138	SURCHPLUS	145
DT119	139	DT302 DELTACHEM	138	SURCHPO	145
DT125	140	KITVI	145	TABPO02	143
DT215	142	MANCHBE	144	TOQUE	144
DT215CV	142	MANCHBL	144		

## WORK WEAR

AGRA	173	M2SA3STR	163	MCCO2	158
ATOLL	153	M2VE3	162	MCCOM	159
BADGE	168	M5BE2	154	MCPA2	157
BALI	172	M5CO2	155	MCPA2STR	157
CEINT04	175	M5GI2	154	MCSA2	158
GENOA	172	M5PA2	153	MCVE2	158
LAZIO	173	M5SA2	155	MOGI2	151
M2BE3	162	M5SGI	170	MOPA2	151
M2BE3STR	162	M5SPA	170	MSLPA	171
M2CO3	164	M5VE2	154	NAPOLI	172
M2CZ3	164	M6BER	168	PALIGPA	171
M2GEN	151	M6COM	169	PALIGVE	171
M2GI3	162	M6GIL	168	PANOSTRPA	167
M2PA3	161	M6PAN	167	REEF	151
M2PA3F	161	M6SAL	169	ROMA	173
M2PA3STR	161	M6VES	168	TURINO	173
M2PA3STRF	161	MAPOC	151	VERONA	174
M2SA3	163	MCCDZ	159	ZIMA	175

## OUTDOOR WEAR

304	213	GOTEBORG2	186	MOTION	191
305	213	GRANDERS	198	MYSEN2	203
400	213	GRAVITY	198	MYSEN2F	203
850PAN	212	HELSINKI2	187	NAGOYA	205
850VES	212	HOLEN	196	NEVE	209
ALASKA2	187	HORTEN2	202	NEW DELTA	194
ALMA	207	ISOLA2	188	NORDIC	209
ANZIO	206	JURA	209	NORTHWOOD3	193
AREN	182	KARA	209	OLINO	206
AREZZO	206	KODIAK	204	ORSA	201
BALTIC	209	KOLDYPANTS	208	OTAKE	210
BEAVER	205	KOLDYTOP	208	RANDERS	192
BRIGHTON2	204	KOPER	183	RENO	194
CARSON2	184	LECCO	206	RUBY	207
CHAMONIX	209	LENA	209	SHERMAN	204
CLUSES2	199	LITE	210	SIERRA2	199
DARWIN3	188	LORCA	193	SLIGO	211
DOON	191	LULEA2	203	STOCKTON2	197
EOLE	181	M2PW3	197	STOCKTON3	197
FIDJI2	196	MA400	213	TATRY	181
FINNMARK2	185	MARMOT	205	VERNON	207
G-DOON	198	MILTON2	180	VIGO	183
GALWAY	211	MOOVE	190	YEMAN	192

## TECHNICAL WEAR

900PANHV	225	GILP4	224	NORDLAND	232
900VESHV	225	HO600	238	NOVA	229
ALMA	233	ICEBERG	232	OFFSHORE	229
ASTRAL	223	IGLOO2	233	OPTIMUM2	219
AUSTRAL2	233	KOLDYTOP	232	PHBE2	228
BALTIC	233	KOMODO2	237	PHPA2	228
BAUCE2	224	KOMODO2HV	237	PHVE2	228
BRAS2	224	LAPONIE2	233	POLFR2	236
CAGFR2	236	LEGA	222	RENO HV	221
CO600	238	M2PHV	227	SSVFR2	236
COMET	229	M2VHV	227	STAR	229
DOONHV	221	MAICA2	235	STRADA 2	220
DOUGLAS 3	231	MAICO2	235	SWEFR2	236
EASYVIEW	219	MAIMA2	235	TABALPV	239
EPICEA 3	231	MAIPA2	234	TABLIVE	239
ERABLE 3	231	MAIVE2	234	TABNIT	239
FARGO HV	220	MANCHB	239	TABPU	239
FIDJI HV	224	MARMOTHV	223	TARMAC	218
FREEWAY HV	224	MELEZE 3	231	TASOUB	239
GALAXY	238	METEOR	229	ZENITH	223
GILP2	224	MOONLIGHT2	222		



### FOOT PROTECTION

22180	291	GOLD2 S5 SRC	281	ORGANO S4 SRA	287
45400	291	GOULT II S1P SRC	267	OXID O4 CI SRC	286
46500	291	HEALTHIC OB SRA	286	PERTUIS3 S1P SRC	267
ARONA S1P SRC	255	IRON S5 SRC	282	PHOCEA S3 SRC	266
ASTI S1P SRC	254	JET3 S1 SRC	273	PHOENIX S3 SRC	266
ATACAMA S3 SRC	268	JET3 S1P SRC	273	PHYSIOHC OB SRA	287
AURIBEAU3 S1P SRC	267	JET3 S3 SRC	273	PHYSIOMC OB SRA	287
BOSTON S1P SRC	249	JUMPER3 S1 SRC	273	PRATO	291
BRISTOL S3 SRC	276	JUMPER3 S1P SRC	273	RICHMOND S1 SRC	276
BRONZE2 S5 SRA	282	JUMPER3 S3 FUR HC SRC	274	RIMINI4 S1P SRC	257
BROOKLYN S3 SRC	250	JUMPER3 S3 FUR SRC	274	ROBION3 S2 SRC	262
CADEROUSSE S3 SRC	274	JUMPER3 S3 SRC	273	SAGA S3 SRC	251
CALYPSO S3 SRC	269	KEMIS S4 CI SRC	285	SAKHA S3 SRC	274
CHAUSSETT	291	LACET XL	291	SAMARA S3 SRC	274
CHAUSSON	291	LAUTARET 3	283	SAMY S3 SRC	265
COBRA4 S3 SRC	258	MAESTRO S3 SRC	269	SANTANA S3 SRC	269
COMO S1P SRC	255	MANHATTAN S3 SRC	250	SAULT2 S3 SRC	272
D-SPIRIT S1P SRC	252	MAUBEC 3 SBEA SRC	262	SAULT2 S3 SRC ESD	261
D-SPIRIT S3 SRC	252	MEMPHIS S1P ESD SRC	249	SMASH S1P SRC	252
D-STAR S1P SRC	252	MIAMI S1P CAMO SRC	256	STONE OB SRA	282
DELTA FLY S1P SRC	247	MIAMI S1P SRC	256	SUMMER S1P SRC	255
DELTA SPORT S1P SRC	250	MIAMI S1P SRC ESD	256	TAKU S3 CI SRC	268
ESKIMO SBHP SRC	283	MIAMI S2 SRC	262	TANGARA2 S1P SRC	257
FENNEC4 S1 SRC	257	MIWA S3 M SRC	258	TW302 S3 SRC	271
FENNEC4 S1P SRC	257	MONTBRUN S3 SRC	272	TW402 S3 SRC	271
FREEZE	283	NICKELS5 CI SRC	283	VIAGI S1P SRC ESD	254
GARGAS II S1P SRC	267	NITRIC SBFO SRC	286	VIRAGE S1P SRC	254
GOBI S3 SRC	268	NOMAD S3 SRC	265		

### FALL PROTECTION

AM002X5	337	AN213100ZDD	320	ASCAB AN025	330
AM007	332	AN213200ZDD	320	ASCAB AN071	330
AM009	337	AN213200ZZZ	320	CAIMAN LV135	331
AM018	337	AN218R2ADD	319	DAYAK LV120G	331
AM022X2	337	AN230AD	318	DESCORD TC006	338
AM023	337	AN235200AD	318	ELARA140	315
AM025X2	337	AN235200PR	318	ELARA150	314
AM027	337	AN240ADD	318	ELARA170	314
AM030	337	AN245200ADD	318	ELARA190	315
AN203100ZZ	320	AN245200PRR	318	ELARA270	313
AN203200ZD	320	AN801	330	ELARA280	313
AN203200ZZ	320	AN802	330	ELARA320	312
AN208R2AD	319	ASCAB AN024	330	ELARA340H	311



## FALL PROTECTION

ELARA350H	311	LV100	331	SPIRAL AN208S200AD	319
ELARA390H	312	LV102050	310	SPIRAL AN218S200ADD	319
EX021	309	LV102100	332	TC001	338
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In accordance with its environmental approach, DELTA PLUS produces its catalogues in France with STIPA on paper from sustainably managed forests (PEFC™).

STIPA is committed to a strong environmental policy, it is ISO 14001, FSC®, PEFC™ and IMPRIM'VERT® certified.

STIPA acts for the forest with reforest**ACTION**, DELTA PLUS supports this action **by participating in the planting of 1000 additional trees.**



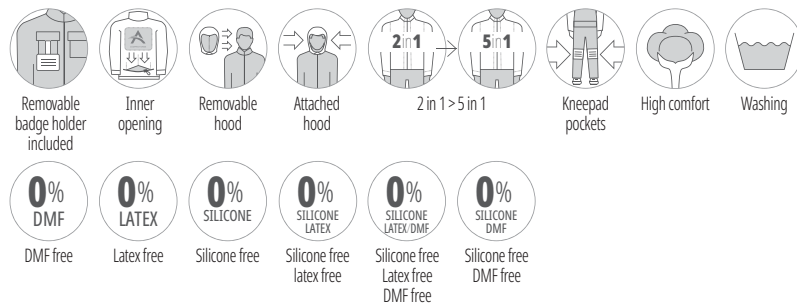
## HEAD PROTECTION



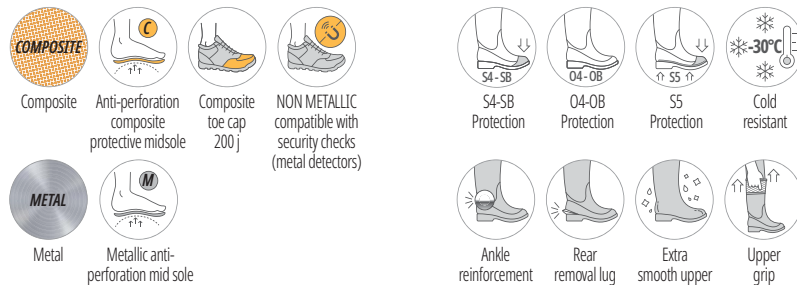
## HAND PROTECTION



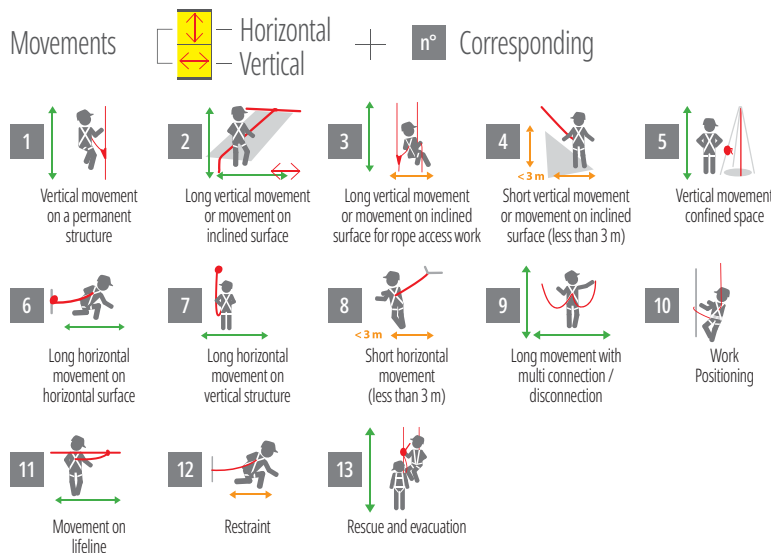
## BODY PROTECTION



## FOOT PROTECTION



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