



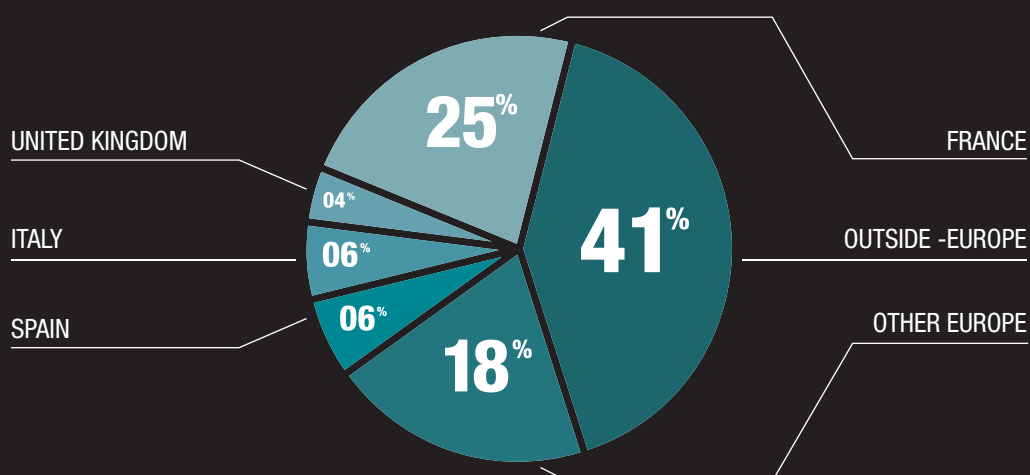
THE SAFETY BOOK



THE DELTA PLUS GROUP IN FIGURES



SHARE OF TURNOVER

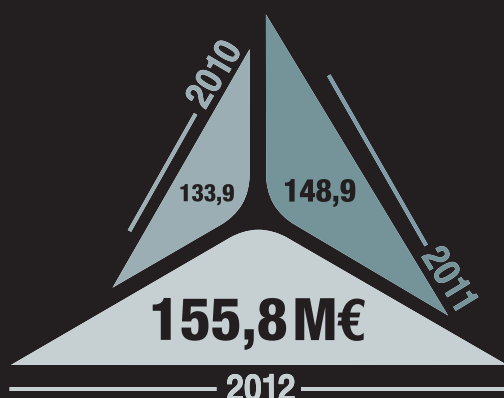


DELTA PLUS is

- Date established: 1977
- Designer and manufacturer of PPE
- Listed on the Paris Stock Exchange since 1999
- 7 production sites
- 22 distribution subsidiaries
- 5 logistics platforms
- 1,500 products
- 10,000 customers worldwide
- 1,400 employees

TURNOVER

(in millions of Euro)



HEAD PROTECTION

2 million helmets
2 million pairs of glasses
8 million masks



FALL PROTECTION

400,000 systems sold



BODY PROTECTION

4 million work wear items
3 million outdoor wear items
> 1 million rain wear items



HAND PROTECTION

50 million pairs of gloves



FOOT PROTECTION

3 million pairs of shoes



THE MISSION DELTA PLUS

ANALYSIS
OF USER
NEEDS



MANUFACTURING



LOGISTICS



STUDY OF USER
CONSTRAINTS



DISTRIBUTION



ONE PPE SOLUTION FOR ALL



DELTA PLUS

GLOBAL SUPPLY CHAIN

PROVIDING GREAT SERVICE LEVELS

5 LOGISTICS
PLATFORMS

40,000 SQ FT
OF STORAGE



ASIA

Direct sourcing solution for a full range of PPE

- **China:** in Wujiang (12 000 m²).
- **India:** near Calcutta (3 000 m²).

- Intermediate storage
- Optimization of costs and delivery times for European platforms
- Your direct deliveries by complete multi-product containers

Through this organization, the DELTA PLUS group is able to meet your most diverse demands, from the delivery of an order of several thousand parts to the timely delivery of a few units.

EUROPE

3 logistics platforms to serve you throughout Europe:

- **France:** at Apt (15 000 m²), for Western Europe.
- **Poland:** et Sosnowiec (5 000 m²), for Central Europe.
- **United Kingdom:** near Manchester (2 500 m²), for the UK and Ireland.

OUTSIDE EUROPE

5 intermediate warehouses to serve other areas:

- **Peru:** in Lima, for South America.
- **United Arab Emirates:** Dubai for the Middle East.
- **Ukraine:** in Kiev for Eastern Europe.
- **Croatia:** in Zagreb for the Balkans.
- **Turkey:** Istanbul for Turkey.

With this supply chain, Delta Plus offers its distributors one of the best service rates in the global PPE market.

10,000 distributors worldwide

The implementation of our distributors, their storage capacity and delivery associated with our service rates are assets to make Delta Plus® personal protection solutions available to users more effectively.

DELTA PLUS ALWAYS CLOSER TO YOU



A TEAM OF 200 EXPERT PPE SALES PROFESSIONALS ARE LOCALLY AVAILABLE TO BRING YOU:

- Advice in choosing your PPE
- Marketing tips
- Training for your sales force
- In field sales support for your team



A GLOBAL DISTRIBUTION NETWORK FOR INTERNATIONAL PROXIMITY

Thanks to its worldwide distribution network, you are guaranteed full access to DELTA PLUS anywhere in the world.

Today, the DELTA PLUS group covers more than 90 countries with 22 distribution subsidiaries in Europe, Asia, South America, and its Grand Export department.

INFORMATION TOOLS FOR MAJOR SECTORS:

Segmentation of the offer by sectors and documents dedicated to an approach perfectly targeted to your customers.





FROM PAPER TO DIGITAL:

Delta Plus is in continuous research of tools to stay close to you and upgrade its information products offering new digital tools:

- www.deltaplus-pictures.com
Image bank with free access. Accessible 24h/24h, 7/7
- A multi criteria PC and tablet search tool to assist you in your choice of PPE: Risk - Business sector - Product Range - Level of range
- 360° 3D views to see the products in every detail
- New technology and new features for our virtual catalogue in 16 languages, available on PC and tablet
- And more, visit our website for more information

AND ALWAYS AT YOUR DISPOSAL:

WWW.DELTAPLUS.EU

A website open to the whole world ...

(English, French, German, Italian, Polish, Spanish, Greek, Portuguese, Dutch, Hungarian, Czech, Slovak, Romanian, Croatian, Chinese, Russian)... For easy access to our global offering and our information wherever you are:

Help to choose your PPE, technical information, on the regulatory and legislative environment, access to product data sheets and compliance statements, a Partner Area for special offers, etc...

DELTA PLUS INNOVATES

FROM HEAD TO TOE

**DELTA PLUS INNOVATES,
DESIGNS, STANDARDISES
TO SUPPLY A GLOBAL OFFER
MEETS YOUR NEEDS**

Delta Plus cares about well-being on the job and researches more innovative solutions in terms of comfort, design and technicality, to protect you in all circumstances.

Each of our product families is worked to provide products that meet European standards (and for some U.S. standards).

Our range managers are inspired by sport and recreation to develop easy to wear PPE at work everyday.

All Delta Plus PPE solutions are offered at the best value: need/ quality/ price



FALL PROTECTION

HAR35 EOLIEN



FOOT PROTECTION

D-SPIRIT



HAND PROTECTION

VENICUT32



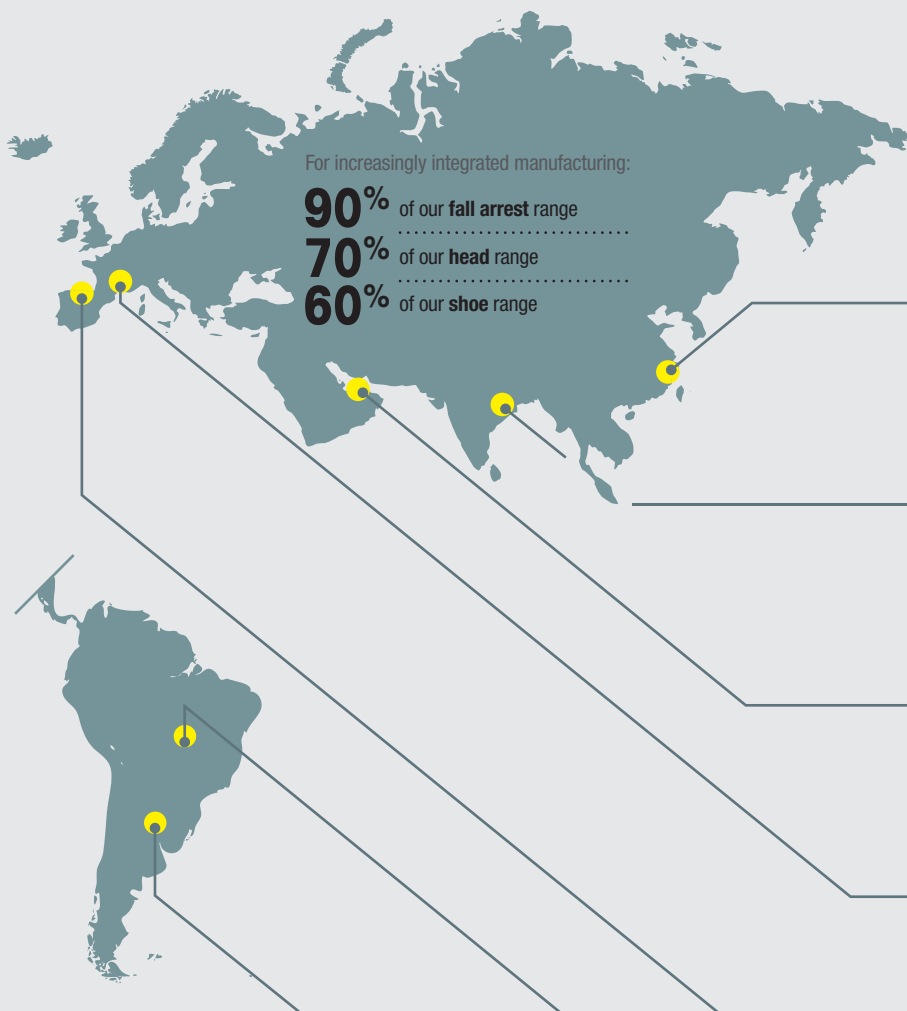
HEAD PROTECTION

SUPER QUARTZ



BODY PROTECTION

D-MACH



For increasingly integrated manufacturing:

90% of our **fall arrest** range

70% of our **head** range

60% of our **shoe** range



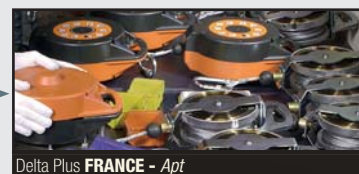
Delta Plus **CHINA** - Wujiang



Delta Plus **INDIA** - Near Calcutta



Delta Plus **Middle East** - Dubai



Delta Plus **FRANCE** - Apt



Delta Plus **SPAIN** - Bilbao



Delta Plus **BRAZIL**



Delta Plus **ARGENTINA** - Buenos Aires

7 PRODUCTION SITES WORLDWIDE

Delta Plus ensures quality and manufacturing control of its products whether in their own factories or their partners' by imposing:

- Respect for the common manufacturing charter
- The constraints of their technical specifications
- A series of tests during and after production

The majority of the group's production sites operate under the certified quality system ISO 9001-2008.

All our sites concerned are certified in accordance with Article 11 of the European PPE Directive (Category III disabling or fatal risks).

DELTA PLUS
MADE
OR IS MAKING
ITS GLOBAL OFFER

PROTECTION FROM HEAD TO TOE, IN THE WORKPLACE

A SEGMENTATION FOR DESIGNING PRODUCTS AND RANGES:



KNOW
THE RISKS



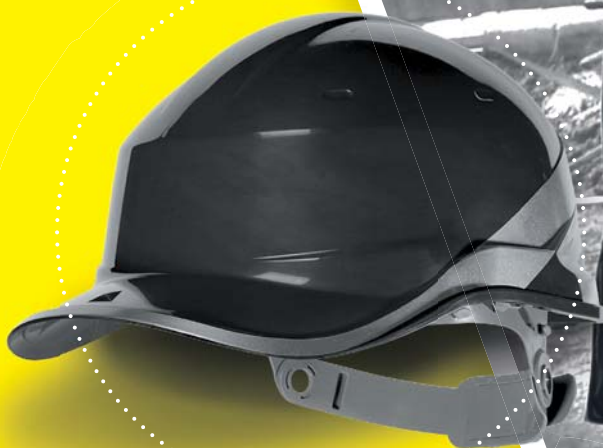
ANALYZE THEM
IN THE WORKERS'
ENVIRONMENT AND
CONSTRAINTS



TOOL:
SEGMENTATION



CONSTRUCTION
OF A SUITABLE
PRODUCT OFFER



Our multi key input segmentation (business areas, risks, levels of range) is the foundation on which is built the strategy of the range and future products are determined and designed, which meet the constraints and risks in the workplace.



SEGMENTATION TO MEET THE NEEDS OF USERS



**LISTEN TO
THE USER**



**EVALUATE THEIR RISKS
AND THEIR NEEDS**



**TOOL:
SEGMENTATION**



**THE EPI ADAPTED
SOLUTION**

Our multi key input segmentation (business areas, risks, levels of range) facilitates the advice from the distributor toward their user customer:

- Respond more quickly and effectively to the needs of the user customer.
- Guide the customer in the same way in the 5 product families

THE KEY INPUTS OF THE SEGMENTATION

• THE BUSINESS AREAS

	AGRICULTURE / GARDEN	Farmers - Woodcutters - Gardeners ...
	BUILDING AND WORKS/ CONSTRUCTION	Structural work - Construction
	FINISHING WORKS/ ARTISAN	Electricians - Plumbers - Heating specialists - Painters ...
	HEAVY INDUSTRY	Metal construction - Petrochemical ...
	LIGHT INDUSTRY	Automotive - Aerospace - Industrial Subcontracting ...
	SERVICES / LOGISTICS	Logistics - Transportation - Airport - Distribution ...
	WHITE / HEALTH	Food industry - Pharmacy - Hospitals - Restaurants - Communities ...

• RISK



ANTISTATIC



NOISE



HEAT



SHOCK



FALL



CUTTING /
PERFORATION



COLD
WEATHER



SLIP



CHEMICAL
BIOLOGICAL



WEARING



UV-IR



ELECTRIC



HIGH VIS

• LEVELS OF THE RANGE

PREMIUM	High Tech products for specialized uses
DEVELOPMENT	Powerful multi-purpose products
ESSENTIAL	Standard multi-purpose products

**A GLOBAL
OFFER,
READABLE AND EFFECTIVE**

ALL OF DELTA PLUS IN ONE — IMAGE

DELTA PLUS, A MULTI SPECIALIST BRAND

The world PPE market on which our company has step by step built its leadership over 35 years requires a new model: A player in global ambition must **design** their products based on a direct relationship with those who wear them everyday.

So that our offer continues to provide value to our distributor customers, it must be united under one unifying symbol of products and services that meet the their expectations and that of their user customers.

This offer once designed, is based on the technical and industrial expertise of our plants and those of our partners.

The **Innovation** engine is a constitutive element of our offer. It must therefore be integrated under one unifying symbol.

Design, innovate, manufacture or have manufactured but also **distribute** via our distributor customers.

The relationship that links us with our distributor customers around the world is constitutive of the identity of our group.

It is in an accompanying desire of our customers that we decided to highlight the **multi-specialist** character our offer and its intrinsic quality.

So what could be more natural than to put this unifying symbol in the forefront that accompanies us from the beginning?

INNOVATION / DESIGN

DE

GLOBAL OFFER

DISTRIBUTION

LTAPLUS

DELTA INNOVATION



*Practical Solutions pour
for a rapid introduction and/
or removal of the PPE.*

SABA

- Easy to position
- Quick adjustment with ROTOR® system



GRANITE PEAK

- Easy to position.
- Quick adjustment with ROTOR® system.
- Light and easy to carry



MCCDZ

- Quick and easy to put on and remove



X-RUN

- Easy to put on and take off.
- Saving time in the lacing and unlacing



*Adhesion techniques
for safe movements and/
or steps.*

ARES

- Excellent hand grip and safe handling of slippery objects



VENICUT45

- Excellent hand grip and safe handling of slippery objects



TREK WORK

- Safety provided on ladders, soft ground, slippery floors, hot floors etc...



*Product providing the
look and/ or the particular
design of Delta Plus: the
pleasure of wearing PPE.*

BASEBALL DIAMOND

- Comfortable to wear with its unique and functional look



ATHOS

- Easy to wear with its look and comfort
- Enhanced protection against shock



SPORTSWEAR

- Easy to wear with its look and comfort



D-MACH

- Look, comfort, durability: Mach quality from Delta Plus



RANDERS

- Easy to wear with its look and mid-season comfort



BARROW

- Elegance.
- Easy to wear with its look and comfort





*Technological advances
for a protection higher than
required by the standard.*

BBCOM

- 3 in 1 product:
- Protection of eyes and ears
- Innovative and simple communication technology



SUPER QUARTZ

- High multiple hazard and multiple environment protection level



PIT BOARD

- Multiple noise protection without isolating warning signals
- Walkie talkie type communication



MOONLIGHT

- Greater comfort by a higher limitation of perspiration.
- The lightness and flexibility of a material with multiple properties



VENICUT32

- High level of comfort and protection.
- Innovative ergonomics for adapted applications
- Durability



VULCAIN

- Innovative coating technology for a high level of comfort and grip in oily environments



AN066 CAMELEON

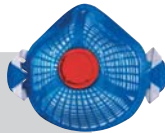
- Innovative design for a 4 in 1 product: multi-purpose
- Easy to transport and handle: Compact and light



*Anatomical and/ or ergonomic
solutions for maximum comfort
and ergonomics.*

SPIDER MASK

- Comfortable and easy to adjust as a result of its design
- Economy through innovation



HESTIA

- Easy adjustment.
- Great dexterity



MACH ORIGINALS

- Innovative design for total freedom of movement.
- High end materials for great product durability



APOLLON

- High level of comfort by its flexibility
- Waterproof while limiting perspiration.
- Great dexterity



VIAGI S1P

- High level of comfort with flexibility, stability, lightness and breathability



HAR32 ANATOM

- Innovative ergonomics for a greater comfort and enhanced security



HAR35 EOLIEN

- Innovative ergonomics for a greater comfort and enhanced security



*Heat shields
for regulating the
temperature of the body
or a part of the body.*

GRANITE WIND

- Good head ventilation due to a large ventilation area



RONNEBY

- High insulation for low temperatures with appropriate materials and design



NORDLAND

- High insulation for low temperatures with appropriate materials and design



ICEBERG

- High insulation for low temperatures with appropriate materials and design



HERCULE

- High insulation from cold and moisture with precise movement



BOROK

- High insulation from the cold
- Protects against moisture



NOMAD S3

- Waterproof.
- Insulation from cold and heat
- Foot ventilation







THE GLOBAL OFFER

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HEAD PROTECTION

HELP WITH CHOICE

2

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Respiratory protection

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HEAD PROTECTION

EYEWEAR

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	HELMET AND ACCESSORIES										





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HEAD PROTECTION

Glasses

- INDOOR
- OUTDOOR
- OUTDOOR / INDOOR

EN166		PREMIUM											
		BREEZE CLEAR	BREEZE SMOKE	BLOW GRADIENT	BLOW SMOKE	THUNDER BRONZE	THUNDER CLEAR	FUJ12 CLEAR	FUJ12 GRADIENT	BB-COM			
													
EN170													
EN172													
EN166		EVOLUTION											
		TAMBORA CLEAR	TAMBORA SMOKE	FUEGO	EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	PACAYA CLEAR	PACAYA SMOKE	LIPARI2 CLEAR	VULCANO2 CLEAR	VULCANO2 SMOKE
													
EN170													
EN172													
EN166		ESSENTIAL											
		BRAVA2 CLEAR	BRAVA2 YELLOW	BRAVA2 LIGHT MIRROR	BRAVA2 MIRROR	BRAVA2 SMOKE	MEGA CLEAR	KILIMANDJARO CLEAR	KILIMANDJARO CLEAR AB	KILIMANDJARO SMOKE	PITON2 CLEAR	PITON CLEAR	
													
EN170													
EN172													
ANSI Z87+													









Goggles

EN166		PREMIUM	EVOLUTION			ESSENTIAL			
		SABA	TACANA SPORT	GALERAS	RUIZ1 ACETATE	RUIZ2	RUIZ1	MURIA2	MURIA1
									
									
ANSI Z87									

Visor

		PREMIUM	EVOLUTION				
		VISOR TORIC	VISOR HOLDER	VISORPC	VISORG	BALB12	PICO2
EN166							
	EN170	●					
	EN1731		●		●		●
EN166	EN166	●	●	●		●	

Welding

PREMIUM					EVOLUTION		ESSENTIAL		EVOLUTION					ESSENTIAL							
BARRIER					CASOUD2		MASOUD2		PACAYA T5					LIPARI2 T5		TOBA2 T5					
																					
EN169					●		●		●					●		●					
EN175					●		●		●					●		●					
EN379					●																
ANSI 287.1					●																



Helmet

All our helmets have standard all for accessories.

EN397		PREMIUM			EVOLUTION				ESSENTIAL		
		GRANITE WIND	GRANITE PEAK	BASEBALL DIAMOND V	SUPER QUARTZ	QUARTZ UP IV	QUARTZ UP III	FORESTIER2	QUARTZ I	ZIRCON I	
		COLOURS									
		ADJUSTMENT									
		VENTILATION									
		ELECTRICAL INSULATION									
		MM	MM	MM	MM	MM	MM	MM	MM		
		LD			LD	LD					
		TEMPERATURE	+50°C -20°C	+50°C -20°C	+50°C -20°C	+150°C -30°C	+50°C -30°C	+50°C -30°C	+50°C -30°C	+50°C -10°C	+50°C -10°C
EN50665											

Bump cap

EN812		PREMIUM	EVOLUTION	
		AIR COLTAN	COLTAN	COLTAN SHORT PEAK
	COLOURS			



NEW SERVICE FROM DELTA PLUS: CUSTOMIZE YOUR SAFETY HELMETS!

- > Printing your logo up to **4 colours**
- > **Front and back** marking available
- > From **40 pieces** per colour
- > Provide us with your logo in vectorized format (.eps or .ai)
- > And the pantone colours.



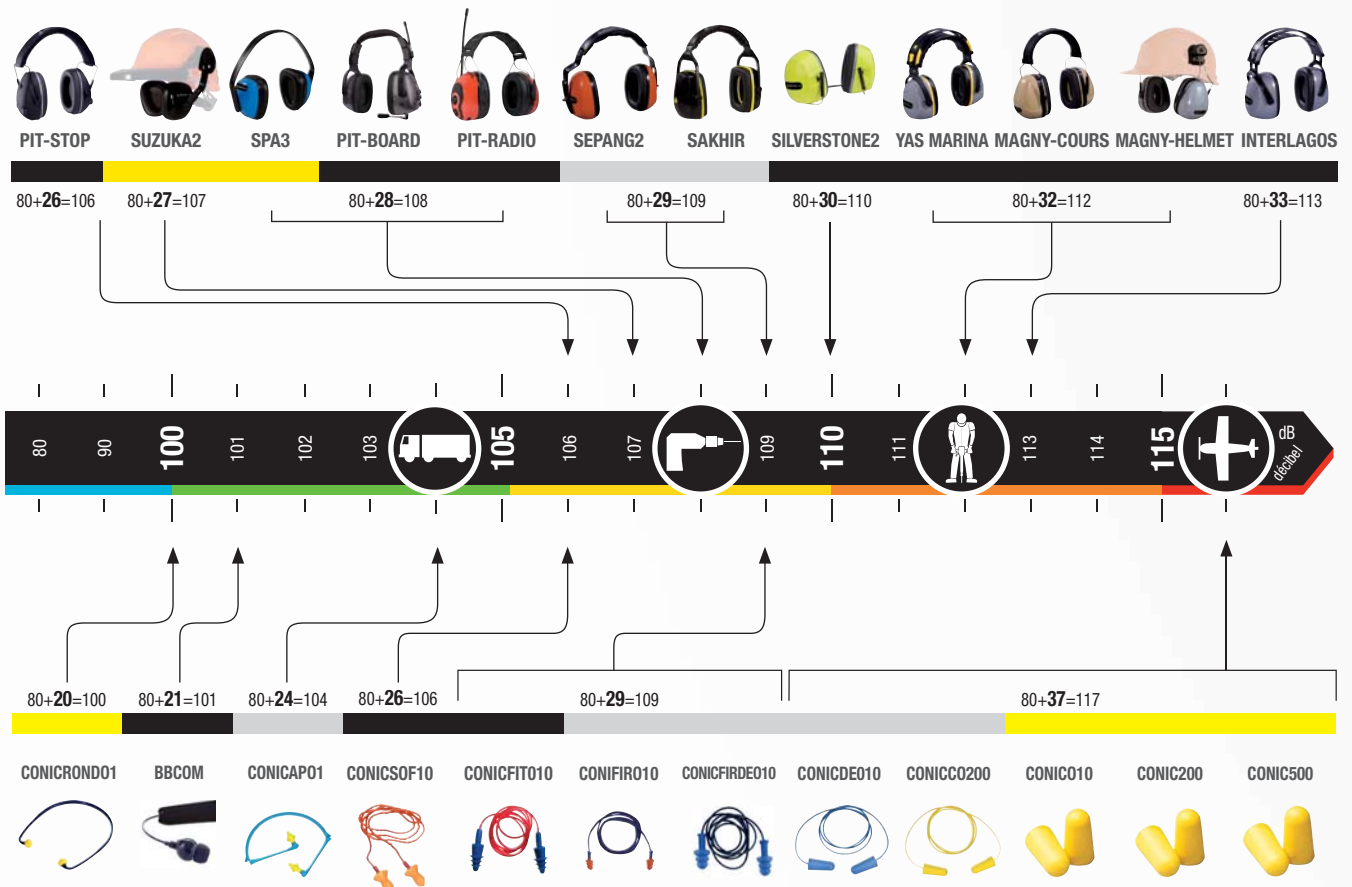
ZIRCON	QUARTZ UP - QUARTZ I SUPER QUARTZ	GRANITE	BASEBALL DIAMOND
Front	Front		Front
		NOTICE: only front printing available	
Back	Back		Back



HEAD PROTECTION

HEARING PROTECTION

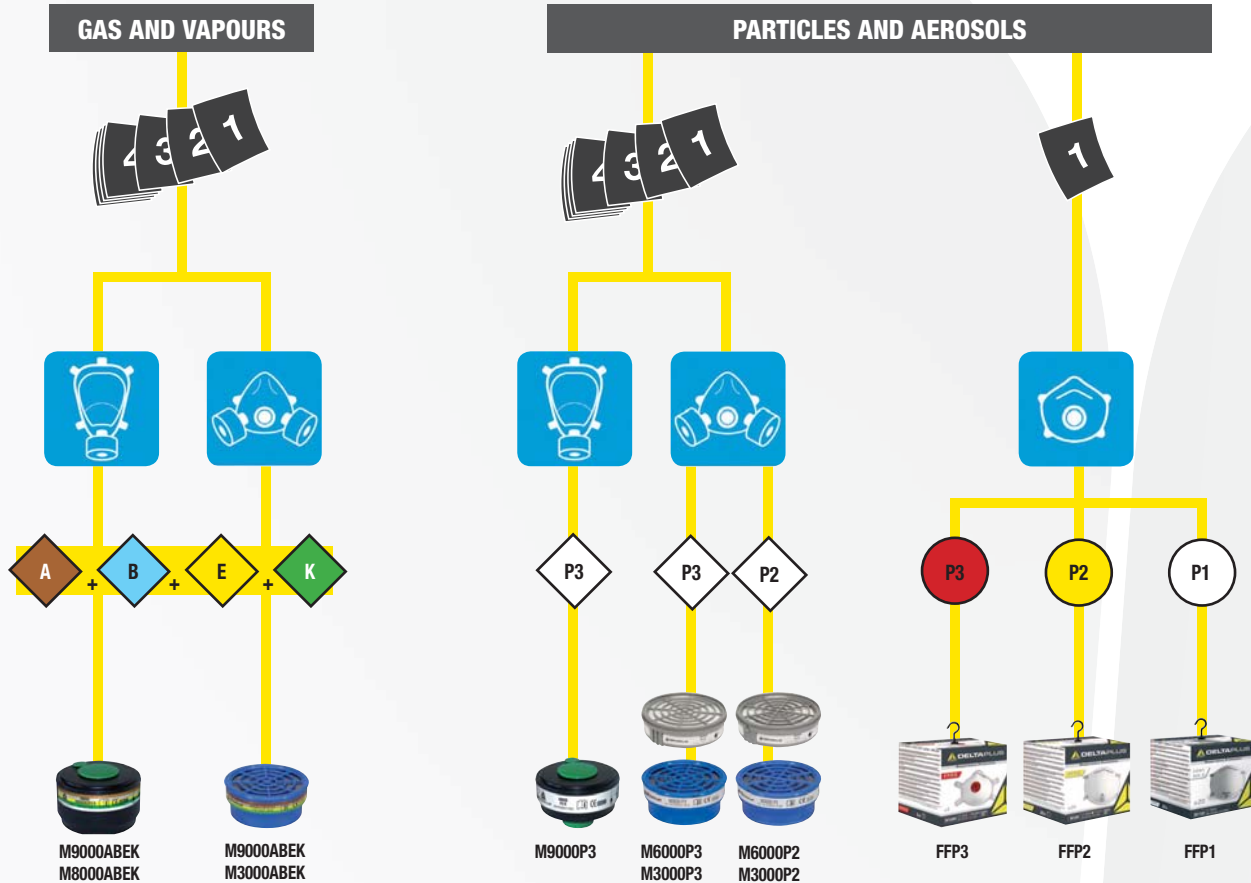
Ear defenders and earplugs





RESPIRATORY PROTECTION

A : Organic gas - B : Inorganic gas - E : Acid gases - K : Ammoniac



	FFP1	FFP2	FFP3
APPLICATION	<p>Protection factor x4</p>	<p>Protection factor x10</p>	<p>Protection factor x20</p>
SUBSTANCES	Flour, calcium carbonate (chalk), graphite, cotton, dust concrete, pollen...*	Untreated softwood, grinding, cutting, welding, milling, coal, glass fibre, mineral fibre, powdered pesticide, grain dust ...*	Asbestos (without handling it), powdered pesticide, biological, pharmaceutical powder, treated wood, hard wood (exotic), chromium, lime, lead...*
Options for comfort	To facilitate expiration and clear moisture		
V : Valve	Ideal size for pocket		
P : Horizontal folding (Individual pack)	Ideal size for pocket		
B : Vertical folding (Individual pack)	Protects from smell and welding fumes		
W : Smell and welding fumes			

* This list is indicative but not contractual and cannot engage the responsibility of DELTA PLUS



FUJI2 CLEAR



FUJI2 GRADIENT

Article	Ref./Colours	Standard	Description	Tech. Info.		
FUJI2 CLEAR	FUJI2NOIN Grey-Black	CE	EN166 1 FT EN170 UV 2C-1.2	Clear polycarbonate twin lens glasses. Twin material arms. Soft tips. Soft PVC nose piece. Side protection.	UV400 Anti-mist Anti-scratch	29 g x100
FUJI2 GRADIENT	FUJI2NOOR Orange-Black		EN166 1 FT EN172 UV 5-1.4 : 5-1.7	Progressive orange polycarbonate twin lens glasses. Twin material arms. Soft tips. Soft PVC nose piece. Side protection.	UV400 Anti-scratch	



SAFETY EYEWEAR

BREEZE CLEAR



20 airholes to prevent misting





Soft tips for more comfort



BREEZE SMOKE



Article	Ref./Colours	Standard	Description	Tech. Info.		
BREEZE CLEAR	BREEZININ Clear-Blue	CE	EN166 1 FT EN170 UV 2C-1.2	Ergonomic glasses. Clear polycarbonate lens. Sports look. Twin material arms. Soft tips. Extra comfort soft PVC nose piece. 20 airholes on top and side.	UV400 Anti-mist Anti-scratch	28 g x100
BREEZE SMOKE	BREEZROFU Red		EN166 1 FT EN172 UV 5-3.1	Ergonomic glasses. Smoke polycarbonate lens. Sport look. Twin material arms. Soft tips. Extra comfort soft PVC nose piece. 20 airholes on top and side.		



BLOW GRADIENT



Removable foam frame for dust and shock protection





Sports elastic strap for better fit



BLOW SMOKE



Article	Ref./Colours	Standard	Description	Tech. Info.		
BLOW GRADIENT	BLOWNFG Clear-Black	CE EN166 1 FT EN172 UV 5-1.1 : 5-1.7	Ergonomic glasses. Gradient smoke polycarbonate lens. Twin material curved arms. Sports elastic strap. Anti-slip soft PVC nose piece. "Soft comfort" removable foam frame for dust and shock protection.	UV400 Anti-scratch	34 g	x100
BLOW SMOKE	BLOWGRFU Grey-Black		Ergonomic glasses. Smoke polycarbonate lens. Twin material curved arms. Sports elastic strap. Anti-slip soft PVC nose piece. "Soft comfort" removable foam frame for dust and shock protection.	UV400 Anti-mist Anti-scratch		

SAFETY EYEWEAR

THUNDER CLEAR



THUNDER BRONZE



Article	Ref./Colours	Standard	Description	Tech. Info.		
THUNDER CLEAR	THUNDBGIN Grey-Blue	CE	EN166 1 FT EN170 UV 2C-1.2	UV400 Anti-mist Anti-scratch	32 g	x100
THUNDER BRONZE	THUNDMGFU Grey-Brown		EN166 1 FT EN172 UV 5-3.1			



BB-COM



High quality bluetooth connection

Osteophone : New technology captures the voice by vibration of the nasal bones

Better communication : Removing background noise

Extractable earplugs dual function : Earphone + earplug (SNR 21 dB)



Adjustable nose piece for an excellent transmission of voice



LED indicates activated or charging system

Included accessories



Article	Ref./Colours	Standard	Description	Tech. Info.		
BB-COM	BBCOMBL Blue-Black	 EN166 1 FT EN170 UV 2C-1.2 EN172 UV 5-3,1 EN352-2 SNR 21 dB H 22 M 22 L 17	Communicating polycarbonate glasses. Bluetooth communication with osteophonic technology. Nasal bone conduction microphone allowing the transmission of voice, without addition of other noises. Managing Multiple Bluetooth connections at the same time with the possibility to download the A2DP profile to listen to high quality music. Included Accessories: Interchangeable polycarbonate lens (clear, smoke and yellow). 2 pairs of spare earplugs in silica gel. A rigid case for glasses and accessories. A flexible case for cleaning lens. A cord. 1 screwdriver. A battery charger. Requires 2 rechargeable lithium batteries	UV400 Anti-mist Anti-scratch	70 g	x6

SAFETY EYEWEAR

TAMBORA CLEAR



TAMBORA SMOKE



Article	Ref./Colours	Standard	Description	Tech. Info.	
TAMBORA CLEAR	TAMBOGRIN Grey	CE	EN166 1 FT EN170 UV 2C-1.2	Clear polycarbonate single lens glasses. Soft, extra comfort border of lens, tips and PVC nose piece. Extra large vision.	x100
TAMBORA SMOKE	TAMBOGRFU Grey		EN166 1 FT EN172 UV 5-3.1	Smoke polycarbonate single lens glasses. Soft, extra comfort border of lens, tips and PVC nose piece. Extra large vision.	

FUEGO



Adjustable arms

Article	Ref./Colours	Standard	Description	Tech. Info.	
FUEGO	FUEGOARIN Silver	CE	EN166 1 FT EN170 UV 2C-1.2	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 use, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.	x100
				UV400 Anti-mist Anti-scratch	



EGON CLEAR



Extra comfort soft PVC nose piece



Lateral protection



Extra soft arms

EGON LIGHT MIRROR



EGON SMOKE



EGON YELLOW



Article	Ref./Colours	Standard	Description	Tech. Info.	
EGON CLEAR	EGONGRIN Grey	EN166 1 FT EN170 UV 2C-1.2	Ergonomic glasses. Clear polycarbonate lens. Sports look. Twin material arms. Extra comfort soft PVC nose piece.	UV400 Anti-mist Anti-scratch	x100
EGON LIGHT MIRROR	EGONROLM Red	EN166 1 FT EN170 UV 2C-1.7	Ergonomic glasses. Flash polycarbonate lens. Sports look. Twin material arms. Extra comfort soft PVC nose piece.	UV400 Anti-scratch	
EGON SMOKE	EGONGRFU Grey	EN166 1 FT EN172 UV 5-3.1	Ergonomic glasses. Smoke polycarbonate lens. Sport look. Twin material arms. Extra comfort soft PVC nose piece.	UV400 Anti-mist Anti-scratch	
EGON YELLOW	EGONBCJA White	EN166 1 FT EN170 UV 2C-1.2	Ergonomic glasses. Yellow polycarbonate lens. Sport look. Twin material arms. Extra comfort soft PVC nose piece.	UV400 Anti-mist Anti-scratch	

SAFETY EYEWEAR

LIPARI2 CLEAR



LIPARI2 T5



Article	Ref./Colours	Standard	Description	Tech. Info.		
LIPARI2 CLEAR	LIPA2BLIN Grey-Blue	EN166 1 FT EN170 UV 2C-1.2	Clear polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated PVC nose piece. Side protection.	UV400 Anti-mist Anti-scratch	34 g	x100
LIPARI2 T5	LIPA2T5 Black-Blue	CE EN166 1 FT EN169 UV 5	Shade 5 polycarbonate single lens glasses for welders. Adjustable and tilting nylon arms. Spatula tips. Integrated PVC nose piece. Side protection.			

VULCANO2 CLEAR



VULCANO2 SMOKE



Article	Ref./Colours	Standard	Description	Tech. Info.		
VULCANO2 CLEAR	VULC2ORIN Orange-Grey	EN166 1 FT EN170 UV 2C-1.2	Clear polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated PVC nose piece. Side protection.	UV400 Anti-mist Anti-scratch	26 g	x100
VULCANO2 SMOKE	VULC2NOFU Orange-Black	CE EN166 1 FT EN172 UV 5-3,1	Smoke polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated PVC nose piece. Side protection.			



PACAYA CLEAR



Removable foam frame for dust and shocks protection



Suitable for all faces with the tilting arms

PACAYA SMOKE






































PACAYA T5




















Article	Ref./Colours	Standard	Description	Tech. Info.		
PACAYA CLEAR	PACAYBLIN Blue-Grey	EN166 1 FT EN170 UV 2C-1.2	Clear polycarbonate single lens glasses. Integrated nose piece. Tilting nylon arms. Side protection. Removable foam frame for dust and shocks protection.	UV400 Anti-mist Anti-scratch	36 g	x100
PACAYA SMOKE	PACAYNOFU Black-Grey	EN166 1 FT EN172 UV 5-3.1	Smoke polycarbonate single lens glasses. Integrated nose piece. Tilting nylon arms. Side protection. Removable foam frame for dust and shocks protection.			
PACAYA T5	PACAYNO05 Black	EN166 1 FT EN169	Shade 5 polycarbonate single lens glasses for welders. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.	Anti-scratch	26 g	

SAFETY EYEWEAR

Article	Ref./Colours	Standard	Description		Tech. Info.	
BRAVA2 CLEAR 	BRAV2IN Silver	CE EN166 1 FT EN170 UV 2C-1.2 ANSI Z87+	Clear polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection. <div>      </div> <div>   </div>	25 g	UV400 Anti-scratch	x100
BRAVA2 YELLOW 	BRAV2JA Silver	CE EN166 1 FT EN170 UV 2C-1.2 ANSI Z87+	Yellow polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection. <div>    </div> <div>   </div>	25 g	UV400 Anti-scratch	x100
BRAVA2 LIGHT MIRROR 	BRAV2LM Silver	CE EN166 1 FT EN170 UV 2C-1.7 ANSI Z87+	Flash polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection. <div>  </div> <div>   </div>	25 g	UV400 Anti-scratch	x100
BRAVA2 MIRROR 	BRAV2FF Silver	CE EN166 1 FT EN172 UV 5-2.5 ANSI Z87+	Flash smoke polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection. <div>  </div> <div>   </div>	25 g	UV400 Anti-scratch	x100
BRAVA2 SMOKE 	BRAV2FU Silver	CE EN166 1 FT EN172 UV 5-3.1 ANSI Z87+	Smoke polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection. <div>    </div> <div>   </div>	25 g	UV400 Anti-scratch	x100
MEGA CLEAR 	MEGAIN100 Clear	CE EN166 1 FT EN170 UV 2C-1.2	Clear polycarbonate single lens deep over glasses. Side protection. Hole in arms for neck cord. <div>   </div> <div>   </div>	55 g	UV400 Anti-scratch	x100






Article	Ref./Colours	Standard	Description		Tech. Info.	
KILIMANDJARO CLEAR 	KILIMGRIN Grey-Yellow	CE EN166 1 FT EN170 UV 2C-1.2 ANSI Z87+	Clear polycarbonate single lens glasses. Adjustable nylon arms. Side protection.  	32 g	UV400 Anti-scratch	x100
KILIMANDJARO CLEAR AB 	KILIMGRINAB Grey-Orange	CE EN166 1 FT EN170 UV 2C-1.2 ANSI Z87+	Clear polycarbonate single lens glasses, anti-mist treatment. Adjustable nylon arms. Side protection.  	32 g	UV400 Anti-mist Anti-scratch	x100
KILIMANDJARO SMOKE 	KILIMNOFU100 Black-Yellow	CE EN166 1 FT EN172 UV 5-3.1 ANSI Z87+	Smoke polycarbonate single lens glasses. Adjustable nylon arms. Side protection.  	32 g	UV400 Anti-scratch	x100
PITON2 CLEAR 	PITO2IN Clear	CE EN166 1 FT EN170 UV 2C-1.2	Very light clear polycarbonate single lens glasses. Modern and sport design. Side protection. Open arms for lateral ventilation. Hole in arms for neck cord.  	30 g	UV400 Anti-scratch	x100
PITON CLEAR 	LUCERNEIN100 Clear	CE EN166 1 FT EN170 UV 2C-1.2 ANSI Z87+	Clear polycarbonate single lens glasses. Direct side ventilation. Side protection. Hole in arms for neck cord.  	45 g	UV400	x100



SABA

FILM GOGGLE

Article	Ref./Colours	Standard	Description	Tech. Info.		
SABA	SABAORVI Orange-Black	 EN166 1 BT 9 / 3 4 9 BT MM	Clear polycarbonate goggles, indirect ventilation. Headband without elastic (latex free). Flexible PVC frame. Innovative ROTOR® system adjustment (patented), easy to put on and comfortable to wear.	Anti-mist Anti-scratch	122 g	x60
FILM GOGGLE	FILMG Clear		Box of 10 sets of protective film to protect screens of goggles. Each set is made of 3 layers of films.			x10



Tilting to fit better



ROTOR® system (Patented)
for easy adjustment



Without elastic strap (latex
free)

Marking (EN166)

- 1 = the best optical class
- B = medium energy impact resistance
- T = impact resistance at extreme temperature
- 3 = liquid projections resistance
- 4 = large dust particles resistance
- 9 = molten metal projections resistance

SAFETY EYEWEAR

TACANA SPORT



Extra wide elastic for sports comfort and tilt system to fit better



Panoramic view

Article	Ref./Colours	Standard	Description	Tech. Info.	
TACANA SPORT	TACANVI Silver	CE EN166 1 BT 9 / 349 BT	Clear polycarbonate goggles. Indirect ventilation. Comfortable flexible frame. Panoramic screen. Adapted to the wearing of corrective glasses and disposable respiratory half-masks. Wide elastic strap.	Anti-mist Anti-scratch	x60

GALERAS











Tilting elastic to fit better

Marking (EN166)

1 = the best optical class
B = medium energy impact resistance
T = impact resistance at extreme temperature
3 = liquid projections resistance
4 = large dust particles resistance
9 = molten metal projections resistance

Article	Ref./Colours	Standard	Description	Tech. Info.		
GALERAS	GALERV Grey	CE EN166 1 BT 9 / 3 4 9 BT MM ANSI Z87	Clear polycarbonate goggles. Indirect ventilation. Flexible PVC and nylon frame. Wide screen with non-reflecting effect. Adapted to the wearing of corrective glasses and disposable respiratory half-masks. Wide elastic strap.	Anti-mist Anti-scratch	104 g	x60



Article	Ref./Colours	Standard	Description		Tech. Info.	
RUIZ1 ACETATE 	RUIZ1VIAC Clear	CE EN166 1 FT / 3 FT	Clear polycarbonate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap. Resistant to chemical products splashes. 	86 g	UV400 Anti-scratch	x60
RUIZ2 	RUIZ2VI Blue	CE EN166 1 BT / 3 BT	Clear polycarbonate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap. Larger vision than RUIZ1: + 17° vertical + 51° horizontal 	86 g		x60
RUIZ1 	RUIZ1VI Grey	CE EN166 1 B / 3 B ANSI Z87	Clear polycarbonate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap. 	86 g		x60
MURIA2 	MURIA2VD Blue	CE EN166 1 BT / BT	Clear polycarbonate goggles. Flexible PVC frame. Direct ventilation. Textile elastic strap. Larger vision than MURIA1: + 17° vertical + 51° horizontal 	76 g		x60
MURIA1 	MURIA1VD Grey	CE EN166 1 B / B ANSI Z87	Clear polycarbonate goggles. Flexible PVC frame. Direct ventilation. Textile elastic strap. 	60 g		x60



TOBA2T5



BARRIBL



PACAYNO05



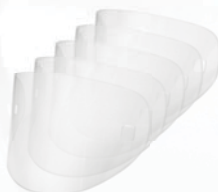
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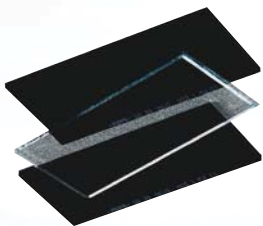
LIPA2T5



MASOUD2NO



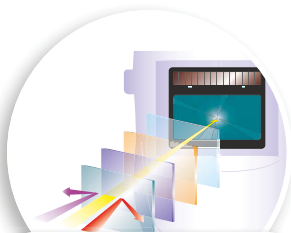
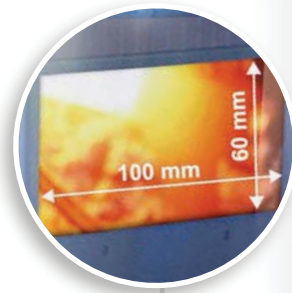
BARRIPPIN



FILTERIN
FILTER 11



Sensitivity $\leq 0,0003$ s



Adjustments : Sensitivity,
shade selection, switching
time



Led of indication for low
battery

Article	Ref./Colours	Standard	Description	
BARRIER	BARRIBL Blue	EN166 1 S EN379 1/3/3/3 4/9-13 EN175 S ANSI Z87.1	Helmet for electric arc welding, MIG, TIG that requires DIN9 to DIN13 protection. Polypropylene. Sweat band. Headband with easy ratchet adjustment. Vision shield: 100 x 60 mm. LCD filter included. Shades: Clear: DIN4 - Dark: DIN9 to DIN13. Sensitivity $\leq 0,0003$ s. (Clear shade to dark shade). Powered by solar cells and 2 replaceable lithium batteries included.	x6
BARRIER PLATE	BARRIPPIN Clear	EN166 1 S	Pack of 5 exterior spare screens for BARRIER helmet in polycarbonate.	x50
CASOUD2	CASOUD2N0 Black	EN166 1 F EN175 F EN169 11	Helmet for all types of welding that requires shade 11 protection. Polypropylene with glass fibre. Headband. Sold ready to use: fixe screen equipped with one clear polycarbonate filter (FILTER-IN) ; Flip-up screen equipped with one DIN11 filter (FILTER-11) ; protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	x10
MASOUD2	MASOUD2N0 Black	EN166 1 F EN175 F EN169 11	Hand shield for all types of welding that requires shade 11 protection. Polypropylene with handle. Sold ready to use: screen equipped with one clear polycarbonate filter (FILTER-IN) ; protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	
FILTER-IN	FILTERIN Clear	EN166 1 F	Pack of 5 clear polycarbonate filter, 108 x 51 mm. to be fitted on CASOUD2 welding helmet and MASOUD2 welding shield. Thickness: 1,8 mm.	x20
FILTER-11	FILTER11 Shade 11	EN166 1 F EN169 UV 11	Pack of 5 Shade 11 mineral filter, 108 x 51 mm. to be fitted on CASOUD2 welding helmet and MASOUD2 welding shield. Thickness: 3 mm.	
TOBA2 T5	TOBA2T5 Red	EN166 1 F EN175 F EN169 UV 5	Welding goggles. Flip-up screen. Flexible PVC frame. Indirect ventilation. Elastic strap. Clear polycarbonate inside lens. Shade 5 mineral glass upper lens with clear polycarbonate reinforcement lens.	x60
LIPARI2 T5	LIPA2T5 Black-Blue	EN166 1 FT EN169 UV 5	Shade 5 polycarbonate single lens glasses for welders. Adjustable and tilting nylon arms. Spatula tips. Integrated PVC nose piece. Side protection.	x100
PACAYA T5	PACAYNO05 Black	EN166 1 FT EN169	Shade 5 polycarbonate single lens glasses for welders. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.	

SAFETY EYEWEAR

VISOR TORIC



Universal fixing



Marking (EN166)
 1 = the best optical class
 A = highest shock resistance
 T = extreme temperature resistance
 8 = electrical Arc, short-circuit resistance
 9 = molten metal projections resistance
 Marking (EN170)
 2C-1,2 = UV resistance

Article	Ref./Colours	Standard	Description	Tech. Info.	Weight	Quantity
VISOR TORIC	VISORTOIN Clear	EN166 1 AT 8 9 MM EN170 UV 2C-1.2	Clear polycarbonate injected visor. Thickness 1,9/2,0 mm. Electric Arc protection. Universal fixing. Suitable for faceshield holder VISOR HOLDER and VIROR H (BALBI2 and PICO2 support). 39 x 20 cm.	Anti-scratch	162 g	x20

VISOR HOLDER



Suitable for safety helmets
 BASEBALL DIAMOND, QUARTZ, ZIRCON



Can be used helmet mounted ear defenders

Article	Ref./Colours	Standard	Description	Weight	Quantity
VISOR HOLDER	VISHONO Black	EN166 EN1731	Faceshield holder suitable for QUARTZ, ZIRCON and BASEBALL DIAMOND V safety helmets. To combine with VISORPC, VISORG and VISOR-TORIC visors, universal fixing.	175 g	x20






BALBI2



VISORPC



Article	Ref./Colours	Standard	Description		
BALBI2	BALB2IN Yellow-Black	 EN166 1 BT 3BT	Faceshield with front protection + VISORPC visor: clear polycarbonate visor with plastic edge. 39 x 20 cm.	260 g	x20
VISORPC	VISORPCIN Clear		Pack of 2 clear polycarbonate visors with plastic edge. Universal fixing. Suitable for BALBI2 - PICO2 - VISOR HOLDER faceshield holder. 39 x 20 cm.	100 g	

PICO2



VISORG



Article	Ref./Colours	Standard	Description		
PICO2	PICO2NO Yellow-Black	 EN1731 F F	Faceshield with front protection + VISORG visor: gauze visor with plastic edge. 39 x 20 cm.	264 g	x20
VISORG	VISORGNO Black		Pack of 2 gauze visors with plastic edge. Universal fixing. Suitable for BALBI2 - PICO2 - VISOR HOLDER faceshield holder. 39 x 20 cm.	104 g	



GRANITE PEAK



GRAPEJAFL



GRAPEBCFL



GRAPEBLFL



GRAWIROFL

GRANITE WIND



GRAWIJAFL



GRAWIBCFL



GRAWIBLFL



GRAWIORFL



GRAWINO



BASGAMMA



JUGAMMA

Article	Ref./Colours	Standard	Description		
GRANITE WIND	GRAWIROFL Fluo red	EN397 MM -20°C +50°C CE	Ventilated ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide harness: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR® system (patented): head sizes 53 to 63 cm. Sold with 3 point chin strap.	355 g	x10
	GRAWIBCFL Fluo white				
	GRAWIBLFL Fluo blue				
	GRAWIORFL Fluo orange				
	GRAWINO Black				
	GRAWIJAFL Fluo yellow				
GRANITE PEAK	GRAPEJAFL Fluo yellow	EN397 MM 440VAC -20°C +50°C EN50365 CLASS 0	ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide harness: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR® system (patented): 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.	350 g	
	GRAPEBCFL Fluo white				
	GRAPEBLFL Fluo blue				
BASGAMMA	BASGANO Black		Bag of 5 thermoformed sweat bands for GRANITE PEAK & WIND, BASEBALL DIAMOND, SUPER QUARTZ and QUARTZ UP safety helmets.		x20
JUGAMMA	JUGGANO Black		Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.		



Polyamide harness : 3 textile bands with 8 fixing points
GRANITE PEAK - GRANITE WIND



Special system of fins which give protection against splashes and optimized surface ventilation



ROTOR® system (Patented) for easy use
GRANITE PEAK - GRANITE WIND



Thermoformed sweat band
GRANITE PEAK - GRANITE WIND



Removable chin strap with 3 fixing points
GRANITE PEAK - GRANITE WIND

SKULL PROTECTION

BASEBALL DIAMOND V



Fluorescent colours and silver band for high visibility day



Also tested for wearing back to front



Very curved visor for higher vertical vision



Button for easy adjustment



DIAM5VEFL



DIAM5BCFL



DIAM5BLFL



DIAM5JAFL



DIAM5NO



DIAM5ROFL

HARNESS V



Article	Ref./Colours	Standard	Description		
BASEBALL DIAMOND V	DIAM5ORFL Fluo orange	EN397 MM LD -20°C +50°C EN50365 CLASS 0	ABS safety helmet. Innovative "baseball cap" shape to improve vision when looking up. Also tested for front back wearing, to reduce encumbrance. Textile harness: 3 textile straps 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 (top/low) for a better comfort. Electrical insulation up to 1 000 V.A.C. or 1 500 V.D.C.	368 g	x20
	DIAM5VEFL Fluo green				
	DIAM5BCFL Fluo white				
	DIAM5BLFL Fluo blue				
	DIAM5JAFL Fluo yellow				
	DIAM5NO Black				
	DIAM5ROFL Fluo red				
HARNESS V	HARNE5 Grey		Bag of 10 spare harnesses for BASEBALL DIAMOND V safety helmet. Textile lining, foam sweat band, adjustment with button.		x10



SUPER QUARTZ



ABS-PC shell



More resistant helmet due to plastic anchorages moulded over the textile straps



Special steel industry



Button for a easy adjustment

Extreme temperature resistance +150°C / -30°C



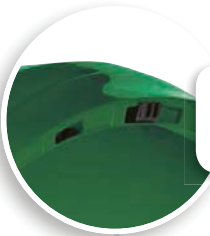
Article	Ref./Colours	Standard	Description		
SUPER QUARTZ	QUAR5BC White	EN397 MM LD 440VAC +150°C -30°C EN50365 CLASS 0	ABS-PC safety helmet. Polyamide harness: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR® system (patented): head sizes 53 to 63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C.	410 g	x40

SKULL PROTECTION

QUARTZ UP IV



2 positionings of the head measurement :
Optimized comfort



Ventilated helmet with adjustable ventilation
QUARTZ UP IV



More resistant helmet due to plastic anchorages moulded over the textile straps
QUARTZ UP IV - QUARTZ UP III



Rotor® adjustment
QUARTZ UP IV - QUARTZ UP III



QUARUP4OR



QUARUP4BC





QUARUP4BL



QUARUP4JA



QUARUP4RO

Article	Ref./Colours	Standard		Description		
QUARTZ UP IV	QUARUP4VE Green	CE	EN397 MM +50°C -30°C	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyamide harness: 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.	360 g	x40
	QUARUP4OR Orange					
	QUARUP4BC White					
	QUARUP4BL Blue					
	QUARUP4JA Yellow					
	QUARUP4RO Red					



QUARTZ UP III



QUARUP3VE



QUARUP3JA



QUARUP3BC



QUARUP3OR



QUARUP3BL

Article	Ref./Colours	Standard	Description		
QUARTZ UP III	QUARUP3VE Green		UV-resistant high density polypropylene (PP) safety helmet. Polyamide harness: 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	351 g	x40
	QUARUP3RO Red				
	QUARUP3BC White				
	QUARUP3BL Blue				
	QUARUP3JA Yellow				
	QUARUP3OR Orange				

FORESTIER2



SNR 27dB










Storage bag included

Article	Ref./Colours	Standard	Description		
FORESTIER2	FORE2OR Orange	 EN397 440VAC MM +50°C -30°C EN50365 CLASS 0 EN352-3 SNR 27 dB H 29 M 25 L 18 EN1731 F	Forester's type helmet consisting of : QUARTZ UP III safety helmet: UV-resistant high density polypropylene. Polyamide lining: 3 textile bands with 8 fixing points. SUZUKA2 ear defenders. VISOR HOLDER faceshield holder. VISORG gauze visor. Plastic shell packaging.	900 g	x10

SKULL PROTECTION

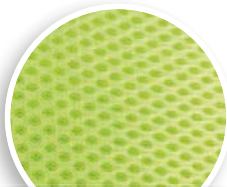
Article	Ref./Colours	Standard	Description		
QUARTZ I   	QUAR1BC White	CE EN397 +50°C -10°C	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyethylene Harness: 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Helmet with ajustable ventilation.	346 g	x40
	QUAR1BL Blue				
	QUAR1JA Yellow				
ZIRCON I       	ZIRC1VE Green	CE EN397 440VAC +50°C -10°C EN50365 CLASS 0	UV-resistant high density polyethylene (HDPE) safety helmet. Low density (LDPE) polyethylene harness 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.	370 g	x40
	ZIRC1BC White				
	ZIRC1BL Blue				
	ZIRC1GR Grey				
	ZIRC1JA Yellow				
	ZIRC1OR Orange				
	ZIRC1RO Red				
WINTER CAP  	WINTERCAPNO 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.		x40
			 		
FUEGO 	FUEGOARIN Silver	CE EN166 1 FT EN170 UV 2C-1.2	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 use, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.		x100
			   		



Article	Ref./Colours	Standard	Description	
JUGGAMMA 	JUGGANO Black	CE	Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.	x20
DYNAMIC JUGALPHA 	JUGALDYNGR Grey	CE	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for SUPER QUARTZ, QUARTZ UP, QUARTZ, ZIRCON and BASEBALL DIAMOND V safety helmets.	x20
MENTALPHA 	MENTAGR Grey	CE	Bag of 10 elastic chin straps with chin protector. Safety-breaking system. Suitable for SUPER QUARTZ, QUARTZ UP, QUARTZ, ZIRCON and BASEBALL DIAMOND V safety helmets.	x20
JUGALPHA 	JUGALGR Grey	CE	Bag of 10 chin straps. Safety-breaking system. Suitable for SUPER QUARTZ, QUARTZ UP, QUARTZ, ZIRCON and BASEBALL DIAMOND V safety helmets.	x20
BASGAMMA 	BASGANO Black	CE	Bag of 5 thermoformed sweat bands for GRANITE PEAK & WIND, BASEBALL DIAMOND, SUPER QUARTZ and QUARTZ UP safety helmets.	x20
BASALPHA 	BASALNO Black	CE	Bag of 10 foam sweat bands for all our safety helmets.	x20

SKULL PROTECTION

AIR COLTAN



Highly ventilated Mesh fabric



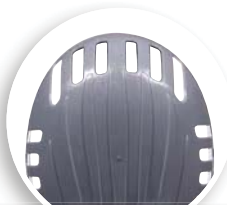
COLTAAIBE



COLTAAIBM



COLTAAIGR



Polyethylene shell with 18 holes



Bi-material



Rear ajustment



3 versions of colour matching the range of MACH 2 CORPORATE and PANOSTYLE clothing



Article	Ref./Colours	Standard		Description		
AIR COLTAN	COLTAAIJAF Fluo yellow	CE	EN812	Impact resistant baseball style bump cap. Highly ventilated polyester/Cotton with mesh fabric. Lined with polyethylene and comfortable EVA foam shell to absorb shocks. Adjustable size by buckle 55/62 cm.	200 g	x20
	COLTAAIBE Beige-Dark grey					
	COLTAAIBM Navy blue-Black					
	COLTAAIGR Light grey-Dark grey					



COLTAN





Long peak (7,5 cm) for outdoor activities

Article	Ref./Colours	Standard		Description		
COLTAN	COLTAGR Black-Red	CE	EN812	Impact resistant baseball style bump cap. Polyurethane coated polyamide. Lined with polyethylene and comfortable EVA foam shell to absorb shocks. Adjustable size by velcro band 58/62 cm.	210 g	x20
	COLTABL Navy blue-Royal blue					

COLTAN SHORT PEAK



Short peak (4,5 cm) for indoor activities, reduced encumbrance

Article	Ref./Colours	Standard		Description		
COLTAN SHORT PEAK	COLSHBM Navy blue	CE	EN812	Impact resistant baseball style bump cap. Polyurethane coated polyamide. Lined with polyethylene and comfortable EVA foam shell to absorb shocks. Adjustable size by velcro band 58/62 cm.	194 g	x20

HEARING PROTECTION

PIT BOARD



SNR 28dB



Selection of communication channel : 8 channels and 38 sub-channels available (Walkie-talkie system)




Led indicates low battery



Adjustable microphone



Volume adjustment on each cup for right/left use separately (Hunting and Walkie-talkie system)

Article	Ref./Colours	Standard	Description		
PIT BOARD	PITBONR Black	 EN352-1 SNR 28 dB H 33 M 26 L 19 EN352-6	Electronic ear defender with ABS cups. Adjustable steel and sponge headband for ultra comfort. 1 button to adjust the volume on each cup for right/left use separately. Walkie-talkie system: allows to choose the communication channel (8 channels and 38 sub-channels available). Maximum reception distance: 3 km. Hunting system: amplification of voices and then warning signals, to avoid the risk of isolation in the workplace. System of amplification shuts off automatically and reverts to passive ear defender mode, in the case of impulsive noise which reaches 80/82 dB. Requires a rechargeable lithium batterie included.	432 g	x10



PIT RADIO



SNR 28dB



BASS ON/OFF button



AUX-IN jack for MP3 connection



Stereophonic
PIT RADIO - PIT STOP



2 AA batteries not
included

Article	Ref./Colours	Standard	Description		
PIT RADIO	PITRANR Black-Red	 EN352-1 SNR 28 dB H 30 M 26 L 19 EN352-8	Electronic ear defender including a radio entertainment device (stereo system) with ABS cups. Adjustable metal and PVC headband. 1 button to select the radio bands. 1 button to adjust the volume. OFF/AM/FM button. Bass ON/OFF button. Allows you to listen to the radio in the FM band (88 - 108 MHz) and in the AM band (540 - 1700 kHz), while keeping an effective and pleasant hearing protection. The AM / FM system is limited to a noise level of 82dB. Requires 2 AA batteries, not included.	300 g	x20

PIT STOP



SNR 28dB



Electric wireless external



6 AAA batteries not
included



LED indicates acti-
vated system

Article	Ref./Colours	Standard	Description		
PIT STOP	PITSTNO Black	 EN352-1 SNR 26 dB H 30 M 23 L 16	Foldable electronic ear defenders with ABS cups, in a mat finish. Pads filled with synthetic foam. Coolmax® headband for extra comfort, adjustable in height. ON/OFF and volume switch button on each cup, for right/left use separately. 2 omni directional microphones outside, connected to 2 loudspeakers inside the cups. Hunting system: amplification of voices and alarm signals to avoid the risk of insulation on the job. System of amplification shuts off automatically and reverts to passive ear defender mode, in the case of impulsive noise which reaches 80/82 dB: protection against hazardous noises. Requires 6 batteries AAA, not included.	286 g	x20

HEARING PROTECTION

INTERLAGOS



SNR 33dB



Tool to carry eardefenders on the belt included for INTERLAGOS - YAS MARINA



Double headband for more flexibility
INTERLAGOS - YAS MARINA



Colours matching GREY MACH 2
CORPORATE RANGE

Article	Ref./Colours	Standard	Description	Weight	Quantity
INTERLAGOS	INTERJAFI Fluo yellow-Black	CE EN352-1 SNR 33 dB H 33 M 31 L 25	Ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with soft, ventilated reinforcement for a better comfort.	303 g	x20
	INTERGR Grey-Black				

YAS MARINA



SNR 32dB



Foldable : reduced encumbrance

SILVERSTONE2



SNR 30dB



Without headband : Easy to wear with all
helmets and bum caps

Article	Ref./Colours	Standard	Description	Weight	Quantity
YAS MARINA	YASMAGJ Grey-Yellow	CE EN352-1 SNR 32 dB H 33 M 31 L 25	Foldable ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with soft, ventilated reinforcement for a better comfort.	312 g	x20
SILVERSTONE2	SILV2JAFI Fluo yellow		Ear defenders for wearing around the neck. Metal arch and ABS cups, padded with synthetic foam.	240 g	



MAGNY COURS



Colours matching BEIGE MACH 2
CORPORATE range

Article	Ref./Colours	Standard	Description		
MAGNY COURS	MAGNYKA Beige-Black	CE EN352-1 SNR 32 dB H 34 M 29 L 23	Ear defenders with ABS cups. Pads filled with synthetic foam. Headgear: internal/textile EVA, internal/PVC material. Adjustable in height. High performance level due to the multi layer technology with AIR ROOM inside the cups.	338 g	x20

MAGNY HELMET



Suitable for all our safety helmets



Colours matching GREY MACH 2 CORPORATE
range

Article	Ref./Colours	Standard	Description		
MAGNY HELMET	MAGNYHEGR Grey-Black	CE EN352-3 SNR 32 dB H 34 M 31 L 23	Ear defenders for safety helmets. Adjustable in height. ABS arms and cups. Cups padded with synthetic foam. Can be used on their own or with «VISOR HOLDER» faceshield holder. Suitable for GRANITE, QUARTZ, ZIRCON and BASEBALL DIAMOND V safety helmets.	286 g	x20

HEARING PROTECTION

SEPANG2



Article	Ref./Colours	Standard	Description		
SEPANG2	SEPA2OR Orange-Black	EN352-1 SNR 29 dB H 31 M 29 L 19 CE	Ear defenders with ABS and synthetic foam cups. Polycarbonate headband, adjustable in height, padded and flexible.	212 g	x50

SAKHIR







Foldable : reduced encumbrance



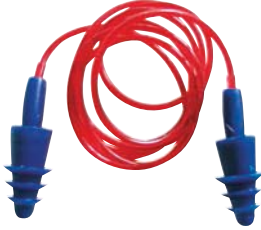





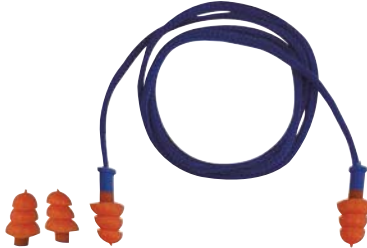











Article	Ref./Colours	Standard	Description		
SAKHIR	SAKHINO Black-Yellow	EN352-1 SNR 29 dB H 34 M 26 L 18 CE	Foldable ear defenders with ABS cups. Pads filled with synthetic foam. Adjustable in height headband, padded with foam and polyurethane (PU).	242 g	x50



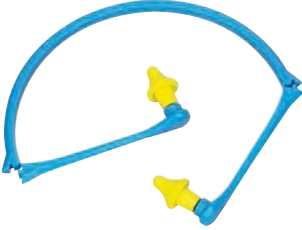

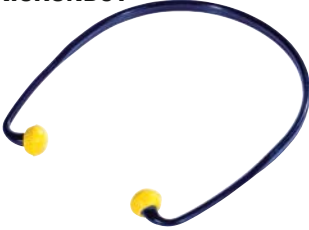





Article	Ref./Colours	Standard	Description		
SUZUKA2 	SUZU2JAF Fluo yellow	CE EN352-3 SNR 27 dB H 29 M 25 L 18	Ear defenders for safety helmets. Adjustable in height. High flexibility ABS arms and cups. Cups padded with synthetic foam. Can be used on their own or with «VISOR HOLDER» faceshield holder. Suitable for GRANITE, SUPER QUARTZ, QUARTZ, ZIRCON and BASEBALL DIAMOND V safety helmets.	257 g	x20
	SUZU2NO Black				
SPA3 	SPA3BL Blue-Black	CE EN352-1 SNR 28 dB H 30 M 27 L 17	Ear defenders with polystyrene (PS) and synthetic foam cups. ABS headband, adjustable in height. Low pressure pads.	158 g	x50



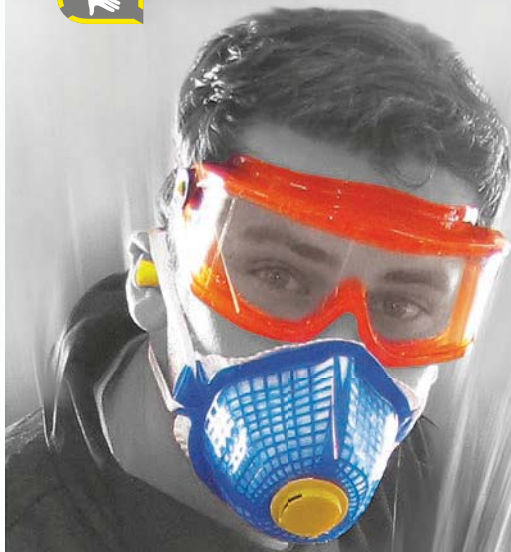
HEARING PROTECTION

Article	Ref./Colours	Standard	Description	
CONICFIT010 	CONICFIT10BL Navy blue-Red	CE EN352-2 SNR 29 dB H 29 M 27 L 25	Bag of 10 pairs of reusable silicone earplugs with nylon cord. Ø 7-11 mm (9 pairs in bag + 1 pair in storage plastic box).   SNR 29dB	x100
CONICSOF010 	CONICSOF10OR Orange-Red	CE EN352-2 SNR 26 dB H 25 M 23 L 22	Bag of 10 pairs of reusable silicone earplugs with textile cord. Ø9-10 mm (9 pairs in bag + 1 pair in storage plastic box).   SNR 26dB	x100
CONICFIR010 	CONICFIR10OR Blue-Orange	CE EN352-2 SNR 29 dB H 27 M 24 L 24 ANSI S.3 19-1974 NRR 26 dB	Bag of 10 pairs of reusable thermoplastic (TPR) earplugs with textile cord. Ø 7-11 mm. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box). • To be used with and without cordon   SNR 29dB	x100
CONICFIRDE010 	CONICFIRDE010BL Blue	CE EN352-2 SNR 29 dB H 29 M 27 L 24 ANSI S.3 19-1974 NRR 26 dB	Bag of 10 pairs of detectable and reusable TPR earplugs with textile cord. Ø 7-11 mm. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box). • To be used with and without cordon   SNR 29dB	x100
CONICDE010 	CONICDE10BL Blue	CE EN352-2 SNR 37 dB H 36 M 35 L 34	Bag of 10 pairs of detectable and reusable polyurethane earplugs with plastic cord. Ø 12 mm (9 pairs in bag + 1 pair in storage plastic box).   SNR 37dB	x100
CONICCO200 	CONICCO200JA Yellow	CE EN352-2 SNR 37 dB H 36 M 34 L 33 ANSI S3. 19-1974 NRR 32db	Dispenser box of 200 pairs disposable polyurethane earplugs with plastic cord. Ø 12mm. Individual plastic bag of 2 earplugs.   SNR 37dB	x5



Article	Ref./Colours	Standard	Description	
CONICAP01 	CONICAP01JA Yellow-Blue	CE EN352-2 SNR 24 dB H 25 M 20 L 19 ANSI S3.19-1974 NRR 22dB	Bag of one pair of reusable polyurethane earplugs with foldable polypropylene headband which can be worn under the chin. Easy to fold away, this product is ideal for intermittent or occasional wear.	x200
CONICAP01BR 	CONICAP01BRJA Yellow		Bag of 10 pairs of spare earplugs for CONICAP01.	x200
CONICROND01 	CONICROND01JA Navy blue-Yellow	CE EN352-2 SNR 20 dB H 25 M 15 L 13	Bag of one pair of reusable polyurethane round earplugs with polypropylene headband which can be worn under the chin. Easy to fold away, this product is ideal for intermittent or occasional wear.	x200
CONICROND01BR 	CONICROND01BRJA Yellow		Bag of 10 pairs of spare round earplugs for CONICROND01.	x200
CONIC010 	CONIC010JA Yellow	CE EN352-2 SNR 37 dB H 36 M 34 L 33 ANSI S3.19-1974 NRR 32dB	Bag of 10 pairs of disposable polyurethane earplugs. Ø 12 mm. Individual plastic bag of 2 earplugs.	x200
CONIC200 	CONIC200JA Yellow	CE EN352-2 SNR 37 dB H 36 M 34 L 33 ANSI S3.19-1974 NRR 32db	Dispenser box of 200 pairs disposable polyurethane earplugs. Ø 12 mm. Individual plastic bag of 2 earplugs.	x5
CONICDIS 	CONICDISBL Blue	CE SNR 37 dB H 36 M 34 L 33	Dispenser for earplugs including a refill of 500 pairs of CONIC500 earplugs.	x4
CONIC500 	CONIC500JA Yellow	CE EN352-2 SNR 37 dB H 36 M 34 L 33 ANSI S3.19-1974 NRR 32db	Box of 500 pairs disposable polyurethane earplugs. Ø 12 mm. Refill unit for CONICDIS.	x5

SPIDER MASK



M1200SM



M1300SM



M1200SMW

Article	Ref./Colours	Standard	Description	
SPIDER MASK P2	M1200SM Blue	CE EN149	Reusable FFP2 dust mask. Reusable moulded mask shell in TPE. Replaceable non woven synthetic fibre disposable filter. Innovative system that reduces cost and optimizes comfort. High performance valve which unscrews to allow changing of the mask filter. Adjustable straps. Back fixing with clip. Sold in 1 box of 1 reusable moulded mask shell + 20 FFP2 spare disposable filters.	x10
SPIDER MASK P3	M1300SM Blue		Reusable FFP3 dust mask. Reusable moulded mask shell in TPE. Replaceable non woven synthetic fibre disposable filter. Innovative system that reduces cost and optimizes comfort. High performance valve which unscrews to allow changing of the mask filter. Adjustable straps. Back fixing with clip. Sold in 1 box of 1 reusable moulded mask shell + 20 FFP3 spare disposable filters.	
SPIDER MASK P2W	M1200SMW Grey		Reusable FFP2W dust mask. Reusable moulded mask shell in TPE. Active carbon non woven synthetic fibre disposable masks for organic vapours (for concentration < VME), replaceable. Innovative system that reduces cost and optimises comfort. High performance valve which unscrews to allow changing of the mask filter. Adjustable straps. Back fastening with clip. Sold in 1 box of 1 reusable moulded mask shell + 20 FFP2W spare disposable filters.	
SPIDER REFILL FFP2	M1200SMWPR30 White		Box of 30 pieces of non woven synthetic fibre disposable masks FFP2 protection. Spare parts for SPIDER MASK.	x30
SPIDER REFILL FFP2W	M1200SMRPR30 White		Box of 30 pieces of non woven synthetic fibre disposable masks FFP2W protection, organic vapours, active carbon. Spare parts for SPIDER MASK.	
SPIDER REFILL FFP3	M1300SMRPR30 White		Box of 30 pieces of non woven synthetic fibre disposable masks FFP3 protection. Spare parts for SPIDER MASK.	



High performance exhalation valve
Screw to change the filtering masks
M1200SM - M1300SM - M1200SMW



Rear fastening with clip and
soft elastic



Box of 1 reusable moulded mask + 2
spare disposable filters
M1200SM – M1300SM - M1200SMW



M1200SMWPR30












M1200SMR30



M1300SMR30







RESPIRATORY PROTECTION

Article	Ref./Colours	Standard	Description	
M1300VB 	M1300VBC White	CE EN149	Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	x10 
M1200VB 	M1200VBC White	CE EN149	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.	x10 
M1100VB 	M1100VBC White	CE EN149	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.	x10 
M1300VP 	M1300VPC White	CE EN149	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.	x10 
M1200VPW 	M1200VPC Grey	CE EN149	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). 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.	x10 
M1200VP 	M1200VPC White	CE EN149	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.	x10 



Article	Ref./Colours	Standard	Description	
M1300V 	M1300VC White	CE EN149 NIOSH N99	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.	x10 
M1300V2 	M1300VC White	CE EN149	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.	x10 
M1200VW 	M1200VC Grey	CE EN149	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Moulded mask. 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.	x10 
M1200V 	M1200VC White	CE EN149 NIOSH N95	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.	x10 
M1100V 	M1100VC White	CE EN149	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.	x10 
M1200 	M1200C White	CE EN149	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.	x10 

RESPIRATORY PROTECTION

Article	Ref./Colours	Standard	Description	
M1100 	M1100C White	CE EN149	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.	x10
M2FP3V 	M2FP3V White	CE EN149 NIOSH N99	Pack of 2 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.	x36
M2FP3V2 	M2FP3V2C White	CE EN149	Pack of 2 non woven synthetic fibre disposable masks FFP3. Moulded mask. Nose clip for adjustment. Reinforced EVA edge under nose clip for extra comfort. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	x36
M2FP2V 	M2FP2VC White	CE EN149 NIOSH N95	Pack of 2 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Reinforced foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	x36
M3FP2 	M3FP2 White	CE EN149 NIOSH N95	Pack of 3 non woven synthetic fibre disposable masks FFP2. Without valve. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	x36
M3FP1 	M3FP1 White	CE EN149 NIOSH N95	Pack of 3 non woven synthetic fibre disposable masks FFP1. Without valve. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	x36



M8200 - MERCURE




Article	Ref./Colours	Standard	Description	
M8200 - MERCURE	M8200 Blue-Black	CE EN136	Thermo-plastic Elastomer (TPE) respiratory mask. Polycarbonate screen with very wide vision field. Inside half-mask to reduce empty space with 2 valves for air circulation to avoid mist. Phonic system. Non return valve. Five- straps headharness with quick-fastening device. Shoulder strap to hold the mask when not in use. Compatible with EN148-1 type, M9000 serie cartridges, sold separately.	x6
M8000 AX	M8000AXNR Brown	CE EN148-1 EN14387	Box of 4 AX filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY and M8200 MERCURE full face masks.	x10
M9000 A2 / M8000 A2	M9000A2 M8000A2 Brown	CE EN148-1 EN14387	Box of 4 A2 filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY and M8200 MERCURE full face masks.	x10
M9000 A2P3 / M8000 A2P3	M9000A2P3R M8000A2P3R Brown-White	CE EN148-1 EN14387	Box of 4 A2P3 filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY and M8200 MERCURE full face masks.	x10
M9000 A2B2E2K2 / M8000 A2B2E2K2	M9000ABEK2 M8000ABEK2 Brown-Grey- Yellow-Green	CE EN148-1 EN14387	Box of 4 A2B2E2K2 filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY and M8200 MERCURE full face masks.	x10
M9000 A2B2E2K2P3 / M8000 A2B2E2K2P3	M9000ABEK2P3R M8000ABEK2P3R Brown-Grey- Yellow-Green- White	CE EN148-1 EN14387	Box of 4 A2B2E2K2P3 filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY and M8200 MERCURE full face masks.	x10
M9000 P3 / M8000 P3	M9000P3R M8000P3R White	CE EN148-1 EN143/A1	Box of 4 P3R filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY and M8200 MERCURE full face masks.	x10



M9200NO

M9300NO

Article	Ref./Colours	Standard		Description	
M9200 - ROTOR GALAXY	M9200NO Black	CE	EN136	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.	x6
M9300 - STRAP GALAXY	M9300NO Black			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	



M8000AX



M9000A2
M8000A2



M9000 A2B2E2K2
M8000 A2B2E2K2



M9000A2P3R
M8000A2P3R



M9000 A2B2E2K2P3
M8000 A2B2E2K2P3



M9000P3
M8000P3

RESPIRATORY PROTECTION

M6200 - JUPITER



M6100 - JUPITER



Article	Ref./Colours	Standard	Description	
M6200 - JUPITER	M6200BL Blue	CE EN140	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 serie, sold separately.	x15
M6100 - JUPITER	M6100BL Blue		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, M6000P3, M6000PREP3 or M6000A1, sold separately.	
M6000 A1	M6000A1 Brown	CE EN14387	Pack of 2 A1 filtering cartridges for M6200-JUPITER half-mask and M6100-JUPITER half mask.	x30
M6000 A2	M6000A2 Brown	CE EN14387	Pack of 2 A2 filtering cartridges for M6200-JUPITER half-mask.	x30
M6000 A1B1E1K1	M6000ABEK1 Brown-Grey- Yellow-Green	CE EN14387	Pack of 2 A1B1E1K1 filter cartridges for M6200-JUPITER half-mask.	x30
M6000 P2	M6000P2R White	CE EN143/A1	Pack of 2 P2 filter cartridges for M6200-JUPITER half-mask.	x30
M6000 P3	M6000P3R White	CE EN143/A1	Pack of 2 P3 filter cartridges for M6200-JUPITER half-mask and M6100-JUPITER half mask.	x30
M6000 PREP3	M6000PREP3R White	CE EN143/A1	Set of 2 P3 pre-filters and 2 adapters for M6200-JUPITER half-mask and M6100-JUPITER half mask. To use with A1, A2 or A1B1E1K1 filters.	x30



M3200 - MARS



M3200 - MARS KIT



A2P2 protection



M3200 - SPRAY KIT



A2P3 protection



Article	Ref./Colours	Standard	Description	
M3200 - MARS	M3200BL Blue	CE EN140	Rubber half-mask. Elastic straps. To be used with 2 filter cartridges, M3000 series, sold separately. Plastic shell packaging.	x15
M3200 - MARS KIT	M3200A2P2R Blue	CE EN140	Rubber half-mask with 2 filter cartridges A2 and 2 prefilters P2. Elastic straps. Plastic shell packaging.	x10
M3200 - SPRAY KIT	M3200A2P3BL Blue	EN14387 EN143/A1	Rubber half-mask with 2 filter cartridges A2 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	
M3000 A2	M3000A2 Brown	CE EN14387	Pack of 2 A2 filter cartridges for M3200-MARS half-mask.	x30
M3000 A1B1E1K1	M3000ABE1 Brown-Grey- Yellow-Green	CE EN14387	Pack of 2 A1B1E1K1 filter cartridges for M3200-MARS half-mask.	x30
M3000 P2	M3000P2R White	CE EN143/A1	Pack of 2 P2 filter cartridges for M3200-MARS half-mask.	x30
M3000 P3	M3000P3R White	CE EN143/A1	Pack of 2 P3 filter cartridges for M3200-MARS half-mask.	x30
M3000 PREP2	M3000PREP2R White	CE EN143/A1	Set of 6 P2 prefilters and 2 adapters for M3200-MARS half-mask. To use with A2 or A1B1E1K1 filters.	x30
M3000 PREP3	M3000PREP3R White	CE EN143/A1	Set of 2 P3 prefilters and 2 adapters for M3200-MARS half-mask. To use with A2 or A1B1E1K1 filters.	x30



HAND PROTECTION



HELP WITH CHOICE

58

High tech

- Handling of sharp-edged objects p. 64
- Anti static works p. 70
- Precision work p. 72
- Handling in oily environments p. 76
- General handling p. 80

Synthetic

- Heavy works p. 90
- Works requiring chemical resistance p. 94
- Works in industry p. 100
- Disposable fine gloves p. 106

Leather










































































































































- Handling in wet environments p. 110
- General handling p. 112
- Handling in cold environments p. 116
- Welders p. 120








Knitted gloves

- Handling requiring cut and heat resistance p. 124
- Small handling p. 126



TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
								VENICUT47	64
								VENICUT59	64
								VENICUT57	65
								VENICUT50	66
								VENICUT52	66
								VENICUT54	66
								VENICUT55	67
								VENICUT56	67
								VENICUT5M	67
								VENICUT41	68
								VENICUT42	68
								VENICUT45	68
								VENICUT30	69
								VENICUT32	69
								METIS	70
								THEMIS	70
								HESTIA	72
								NEPTUNE	73
								VULCAIN	77
								EOS	80
								ATHOS	82
								BOREE	82
								BOROK	83
								NYSOS	83
								APOLLON WINTER	84
								HERCULE	85
								APOLLON	86
								ARES	87
								LA600	102
								VENIPRO 450	102
								MANUTEX 1382	106
								BUCHS20V	110
								FBH60	110
								FB149	111
								FIB49	111
								FIBKV02	111
								TER250	121
								TERK400	121
								CRYOG	123
								GFK58H	125

	AGRICULTURE / GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
									
			●		●	●		VE702	74
			●		●	●		VE702GR	74
			●		●	●		VE703N0	74
		●	●		●	●		VE726	76
		●	●		●	●		VE727	76
		●	●		●			VE713	78
		●	●			●		VE7300R	88
●		●	●					LAT50	90
		●		●				VENIZETTE 920	90
●		●		●				LA500	91
		●		●				VENIFISH 990	91
		●		●		●		NI170	92
		●		●		●		NI175	92
		●		●		●		NI150	93
		●		●		●		NI155	93
●				●				PVCC400	94
●				●				PVCC600	94
●				●				PVCC270	95
●				●				PVCC350	95
				●				VE760	96
				●				VE780	96
		●		●	●			NEOCOLOR 530	98
		●		●	●			TOUTRAVO 510	98
		●		●	●			TOUTRAVO 509	99
●				●	●		●	NITREX 802	100
●				●	●		●	NITREX 846	100
				●	●		●	NITREX 830	101
				●	●	●	●	ALPHA 905	103
		●		●		●	●	VE440	103
				●	●		●	VE460	103
					●		●	VENICTACTYL 1400B100	107
		●					●	VENICTACTYL 1400PB100	107
●		●				●		CBHV2	112
		●				●		FC129	112
		●				●		GFA402	112
		●				●		50MAC	113
		●				●		51FEDF	113
		●				●		52FEDFP	113
		●				●		GFBLE	113
		●				●		FP159	115
		●				●		DCTHI	116
		●	●			●		FBF49	116
		●	●			●		FBF50	116
				●				FC115	120
				●				GFA115K	120
				●				TIG15K	120
				●				KCA15	124
					●			KPG10	124

TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
								VE702P	75
								VE702PG	75
								VE722	76
								VE712GR	79
								VE715	79
								VE740	85
								VE630	88
								VE631	88
								VE799	88
								DA109	97
								LA110	97
								NI015	97
								PVC7327	97
								PVC7335	97
								NITREX 801	101
								DUOCOLOR 330	104
								PICAFLO 240	104
								ZEPHIR 210	104
								VENICLEAN 1340	108
								VENITACTYL 1310	108
								VENITACTYL 1350	109
								VENITACTYL 1371	109
								VENITACTYL 1390	109
								CT402	114
								FBJA49	114
								FBN49	114
								FCN29	115
								TC149	115
								DF132	117
								DRF605	117
								FBF15	117
								BLACK	118
								DS202RP	118
								DS302R	118
								DC103	119
								DP302	119
								DR605	119
								GDB505	119
								TC716	120
								CA515R	122
								CA615K	122
								TC715	122
								PM159	126
								PM160	126
								TAE10	126
								TP169	126
								BOL49	127
								CO131	127
								COB40	127
								CP149	127
								TT460	127

Supported or Not supported ?

► SUPPORTED: WHAT TYPE OF SUPPORT ?

- **Cotton : Natural fibre**
Exceptional comfort / Excellent capacity to absorb sweat / Insulating power.
- **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**
Protection against heat and cutting. / Carbonised between 425° and 475° / Self extinguishing / softness and high dexterity / Washable.
- **Taeki® : High-strength polyethylene fibre**
Synthetic fibre with exceptional mechanical properties, especially for abrasion and cutting resistances.
- **Deltanocut® : High performance polyethylene fibre**
Highly resistant mono fibre polymer enabling a level 3 for cuts and exceptional dexterity.

► 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) : Gives a velvety touch and limits the effects of latex protein allergies.

PLUS : How to identify sizes ?

Implementation of a colour-coding system for High-Tech gloves : Uniform sizes for easy identification.

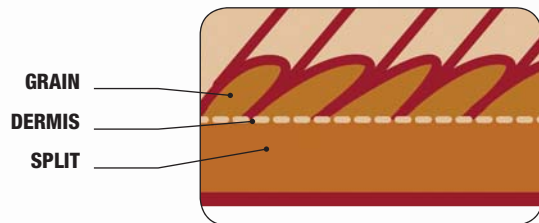
6	7	8	9	10	11
Red	Yellow	Brown	Black	Blue	Grey

HAND PROTECTION

LEATHER GLOVES

Grain or Split ?

- **Full grain leather:** External part.
Advantages: dexterity, comfort and touch accuracy.
- **Split leather:** Internal part.
Advantages : greater resistance to abrasion, suitable for heavy-duty work.



Which type of leather ?

- **Cowhide**
Full grain or Split : Suppleness, dexterity and good resistance to abrasion and tearing.
- **Pigskin**
Full grain and split : Highly breathable thanks to its porous structure.
Softer and more supple in damp working conditions.



- **Goatskin**
Full grain only : Very highly supple, used for delicate applications, can have good resistance to abrasion depending on the thickness used.
- **Lambskin**
Full grain only : Suppleness and dexterity.

SYNTHETIC GLOVES

	LATEX	NITRILE	NEOPRENE	PVC	POLYURETHANE
<div>+</div> Strengths	<ul style="list-style-type: none"> • Supple, elastic, impermeable to water • Good mechanical Resistances (perforation and cutting) and to cold 	<ul style="list-style-type: none"> • Very good resistances to abrasion, to perforation and not sensitive to heat • Repels oil and grease • Suitable for some chemical products 	<ul style="list-style-type: none"> • Very good resistances to abrasion and to heat • Repels oil, grease and hydrocarbons • Suitable for aggressive chemical environments 	<ul style="list-style-type: none"> • Good mechanical resistance and to cold • Repels acids and hydrocarbons • Suitable for aggressive chemical environments 	<ul style="list-style-type: none"> • ALWAYS SUPPORTED • Good resistance to abrasion and to tearing • Micro porous and highly elastic • High sensitivity
Elasticity/Flexibility	👤👤👤	👤👤	👤👤	👤	👤👤
Abrasion	👤	👤👤👤	👤👤👤	👤👤	👤👤👤
Acids	👤👤	-	👤👤👤	👤👤👤	👤
Bases (Lime, Sodium hydroxide)	👤👤👤	👤👤	👤👤👤	👤👤	👤
Oils/Grease	-	👤👤👤	👤👤👤	👤👤	👤
Hydrocarbons	-	👤👤	👤👤👤	👤👤👤	👤
Aromatic solvents (styrene...)	-	👤👤👤	-	-	-
Ketone solvents	👤👤	-	👤👤👤	-	-
Acetates (degreasing agents)	-	👤👤	👤	👤	-
<div>!</div> Precautions for use TO AVOID	Petroleum products, oil, grease and acids	Ketones, acids, alcohols	Chloride solvents	Ketones and aromatic/chloride solvents	Chemical products

- Not recommended 👤 Average 👤👤 Good 👤👤👤 Very good

CUT RESISTANT GLOVES

LEVEL	CUT RESISTANT GLOVES					
	WITHOUT COATING	PU	NITRILE	LATEX	LEATHER	PVC
LEVEL 5	 VENICUT55 VENICUT5M	 VENICUT59	 VENICUT57 VENICUT54	 VENICUT52	 VENICUT50	 VENICUT56
LEVEL 4		 VENICUT42 VENICUT47	 VENICUT41	 VENICUT45		
LEVEL 3	 VENICUT30	 VENICUT32				

Taeki® : High-resistant polyethylene fibre

Cut protection that will bring **comfort, dexterity and Safety?**

New fibres have been developed, high density polyethylene fibres, which offer an excellent combination of comfort, dexterity and resistance without decreasing the level of cut performance. An optimum hand protection is then guaranteed.

The VENICUT range of cut protective gloves provides solutions to each risk of cutting depending to your specific need :

► VENICUT RANGE WITH 4 CUT LEVEL, TO COMBINE SAFETY AND COMFORT

TAEKI® S, a new synthetic fibre (high density polyethylene) with enhanced mechanical properties including abrasion and cuts. This fibre pleasant to touch, feel "second skin" gives you great dexterity while protecting you against cuts.

Protection in moderate use: precision work.

4 Cut resistant glove level according to EN388. These coated palm and finger tips (VENICUT42 and VENICUT41) offer better breathability. They are recommended for continuous uses where the abrasiveness of objects handled is low.

Eg : metal handling

► VENICUT RANGE, CUT LEVEL OF 5, FOR MAXIMUM SAFETY AND A GOOD CONTACT-HEAT PROTECTION

TAEKI® 5, New synthetic fibre (high density polyethylene) responding to both mechanical and thermal characteristics.

This fibre provides increased protection against cuts and contact-heat, a good compromise between resistance and dexterity.

Protection in the intensive use: Heavy handling work, under glove. These gloves with level 5 cut according to standard EN388 were knitted (VENICUT55, VENICUT56/VENICUT5M), coated (VENICUT52, VENICUT54) or with protected leather (VENICUT50) to improve their resistance to frequent contact with sharp or abrasive objects. Their lifetime is optimized.

Eg : handling sharp pieces

HAND PROTECTION

Deltanocut®

The **DELTA**nocut® fibre is a DELTA PLUS registered trademark. It was developed to meet the demands of users, who are looking for comfort and optimal protection.

The new fibre is a resistant single fibre polymer, to a lesser thickness compared with conventional fibres (mixture of several fibres) and thereby provides maximum dexterity. The composition provides a cut resistancy of level 3.

The fibres soft touch texture provides comfort and feeling of freshness all day.

DELTAnocut® fibre is guaranteed DMF free for a total material safety and therefore a protection of the handled objects.







DELTAnocut® fibre is also washable for hygiene purposes and the gloves can be reused.

DELTAnocut® fibre is guarantee for comfort and breathability, thanks to the fibres reduced thickness.



A suitable protection to your needs

A marking facilitated via visually identifiable colour codes

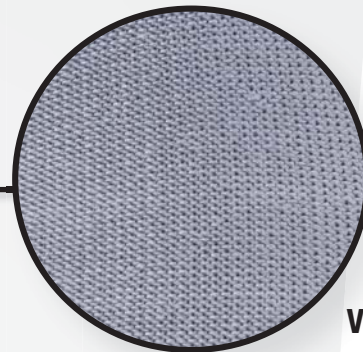
Risk					Performance
Isolation ----- Gravity 					5
				VENICUT59	
Deep cut ----- Gravity 					4
			VENICUT47		
Superficial cut ----- Gravity 					3
		VENICUT32			
		Occasional	Regular	Continuous	
		Frequency of exposure			

HELP WITH CHOICE

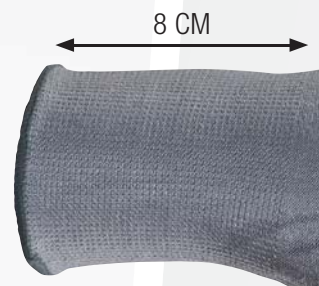
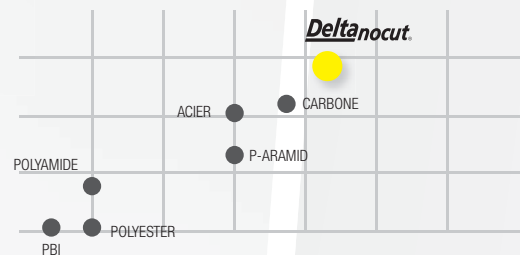


***Delta*nocut®**

A NEW FIBRE WITH **HIGH PERFORMANCES**



**MONO-FIBRE
POLYMERE
VERY RESISTANT**



8 CM WRIST
FOR A BETTER PROTECTION

HANDLING OF SHARP-EDGED OBJECTS

CUT RESISTANCE LEVEL 5 & 4 - DELTAnocut®

VENICUT59





DELTAnocut® +
Level 5 cut resistancy

Fine touch
Soft touch texture provides comfort and
feeling of freshness all day

DMF free
Washable



Article	Ref./Colours	Standard	Description	Sizes	
VENICUT59	VECUT59NO Black	CE  EN388 4, 5, 4, 3	Deltanocut®+ high performance fibre. PU coating on palm and fingertips. Gauge 13.	07 / 08 09 / 10 / 11	 x60

VENICUT47





Deltanocut®
Cut resistancy of level 4

DMF free
Washable

Polyurethane coating :
• Very good resistance to abrasion and
tearing
• Sensivity and elasticity
• Increased breathability



Article	Ref./Colours	Standard	Description	Sizes	
VENICUT47	VECUT47RO Red	CE  EN388 4, 4, 4, 2	Deltanocut® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13.	06 / 07 / 08 09 / 10 / 11	 x60

VENICUT57





Réinforced para-aramide
Cut resistancy of level 5

Preformed glove shape prevents hand
fatigue



NITRILE COATING

- Excellent grip in oily environments
- Excellent mechanical performances

Article	Ref./Colours	Standard	Description	Sizes	
VENICUT57	VECUT57VE Yellow-Green	CE  EN388 4, 5, 4, 4	Reinforced para-aramid. Nitrile coating on palm and fingertips. Gauge 10.	07 / 08 09 / 10 / 11	 x60

HANDLING OF SHARP-EDGED OBJECTS

CUT RESISTANCE LEVEL 5 - TAEKI® 5

VENICUT50



Split leather :
• Very good abrasion resistance
• Ideal for heavy work

TAEKI® 5 high performance polyethylene:
• Excellent cut resistance
• Maximum abrasion performance
• Heat resistance up to 250°C

Reinforced thumb crotch



Article	Ref./Colours	Standard		Description	Sizes	
VENICUT50	VECUT50 Mixed-Grey	CE	EN388 4, 5, 4, 3	EN407 X, 2, X, X, X, X	TAEKI® 5 High performance polyethylene fibre. Cowhide on palm and fingertips. Gauge 10.	09 / 10 x60

VENICUT52



Latex coating :
• Good abrasion resistance
• Anti slip rough texture
• Excellent grip



VENICUT54



Nitrile coating :
• Excellent grip in oily environments
• Excellent mechanical performances

3/4 coating :
• Increased protection of fingers
• Protection against oils
• Strength at joints
• Long lifespan



Article	Ref./Colours	Standard		Description	Sizes	
VENICUT52	VECUT52 Mixed-Black	CE	EN388 4, 5, 4, 2	EN407 X, 2, X, X, X, X	07 / 08 09 / 10	x60
VENICUT54	VECUT54 Mixed-Black			EN407 X, 1, X, X, X, X		

VENICUT56



PVC dots :

- Excellent grip
- Anti-slip

TAEKI® 5 high performance polyethylene:

- Excellent cut resistance
- Maximum abrasion performance
- Heat resistance up to 250°C



Article	Ref./Colours	Standard		Description	Sizes	
VENICUT56	VECUT56 Mixed	CE	EN388 3, 5, 4, X	EN407 X, 1, X, X, X, X	TAEKI® 5 High performance polyethylene fibre. PVC dots on palm. Gauge 10.	07 / 09 / 10 x120

VENICUT55



Food compatibility

TAEKI® 5 high performance polyethylene:

- Excellent cut resistance
- Maximum abrasion performance
- Heat resistance up to 250°C



VENICUT5M



45 cm

Food compatibility

TAEKI® 5 high performance polyethylene:

- Excellent cut resistance
- Maximum abrasion performance
- Heat resistance up to 250°C

Article	Ref./Colours	Standard		Description	Sizes	
VENICUT55	VECUT55 Mixed	CE	EN388 3, 5, 4, X	EN407 X, 1, X, X, X, X	TAEKI® 5 High performance polyethylene fibre. Gauge 10.	07 / 09 / 10 x120
VENICUT5M	VECUT5M Mixed		EN388 4, 5, 4, X		TAEKI® 5 High performance polyethylene fibre. Knitted sleeve with thumbhole. Length 45 cm. Gauge 13.	ONE SIZE x60



HANDLING OF SHARP-EDGED OBJECTS

CUT RESISTANCE LEVEL 4 & 3

VENICUT45



Latex coating :
• Good abrasion resistance
• Anti slip rough texture
• Excellent grip

Preformed glove shape prevents hand fatigue



Article	Ref./Colours	Standard	Description	Sizes	
VENICUT45	VECUT45BL Yellow-Blue	CE EN388 4, 4, 4, 3	Reinforced para-aramid. Latex coating on palm and fingertips. Gauge 10.	07 / 08 09 / 10 / 11	x60

VENICUT42



PU coating :
• Flexibility and dexterity
Silicone free :
• Limit the Environmental risks of manufacture



TAEKI® S:
• Maximum abrasion performance
• Excellent cut resistance
• Soft fibre : High level of comfort
• Gauge 13 : High level of dexterity

VENICUT41



Nitrile coating :
• Excellent grip and protection in greasy and oily environments
• Excellent mechanical performances



Article	Ref./Colours	Standard	Description	Sizes	
VENICUT42	VECUT42GR Grey	CE EN388 4, 4, 4, 2	TAEKI® S High performance polyethylene fibre. Polyurethane coating on Palm and fingertips. Gauge 13.	07 / 08 09 / 10	x60
VENICUT41	VECUT41 Grey-Black	EN388 4, 4, 4, 4	TAEKI® S High performance polyethylene fibre. Nitrile coating on Palm and fingertips. Gauge 13.		

VENICUT32



Deltanocut®
Cut resistancy of level 3
VENICUT32 - VENICUT30



8 cm

DMF free
Washable
VENICUT32 - VENICUT30

Fine touch
Soft touch texture provides comfort and feeling of freshness all day
VENICUT32 - VENICUT30



Article	Ref./Colours	Standard		Description	Sizes	
VENICUT32	VECUT32JA Yellow	CE	EN388 4, 3, 4, 2	Deltanocut® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08 09 / 10 / 11	x60
	VECUT32BC White					
	VECUT32GR Grey					

VENICUT30



8 cm



Article	Ref./Colours	Standard		Description	Sizes	
VENICUT30	VECUT30BC White	CE	EN388 4, 3, 4, X	Deltanocut® high performance fibre. Gauge 15.	06 / 07 / 08 09 / 10	x60



THEMIS



METIS

Article	Ref./Colours	Standard		Description	Sizes	
THEMIS	W792BC White-Orange	CE	EN388 1, 1, 3, X	EN1149-2	Copper polyamide. Polyurethane coating on palm and fingertips. Gauge 13.	06 / 07 / 08 09 / 10 / 11
METIS	W791BC White-Orange					



These gloves offer a particularly efficient level of dissipation of electrostatic charge, if they are used in conjunction with shoes and appropriate clothing and the user is grounded

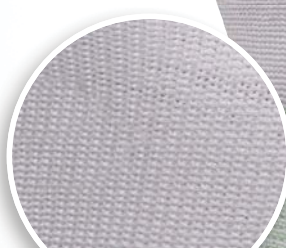
PRECISION WORK
POLYURETHANE COATING

HESTIA




Very high density support for good handling and maximum dexterity.

Double polyamide knitted



Gauge 15 :
• Very good dexterity and precision to work

8 cm

Article	Ref./Colours	Standard		Description	Sizes	
HESTIA	VV702BC White	CE	 EN388 4, 1, 3, 1	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08 09 / 10	x120
	VV702NO Black					

NEPTUNE



Silicone free
DMF free

Product protection :

- Solvent free
- Dark colour
- Innovative manufacturing process

Coating without solvent :
Replacement of solvent by water to
ensure the good adhesion between
polyurethane and the support

Benefits :

- Protection of the environment
- More comfortable
- No risk of irritations
- High longevity





POLYURETHANE COATING

RESISTANCE

- Abrasion
- Tearing

ADVANTAGE

- Increased breathability
- Very good sensivity
- Good Elasticity

Article	Ref./Colours	Standard	Description	Sizes	
NEPTUNE	VV800 Blue-Black	CE  EN388 4, 1, 2, 1	100% Polyamide. Solvent free polyurethane coating on palm and fingertips. Gauge 13.	07 / 08 09 / 10	 x120

PRECISION WORK

POLYURETHANE COATING

VE703NO





3/4 coating
• Increased protection of fingers
• Longevity

Silicone free

Second skin effect



Article	Ref./Colours	Standard	Description	Sizes	
VE703NO	VE703NO Black	CE  EN388 4, 1, 3, 1	100% polyamide. Polyurethane coating on palm, fingers and half back. Gauge 13.	07 / 08 09 / 10	 x240

VE702GR



Backing colour :
• Handling of soiled objects
Seamless knit :
• More comfort





VE702




Second skin effect



Article	Ref./Colours	Standard	Description	Sizes	
VE702GR	VE702GR Grey	CE  EN388 4, 1, 3, 1	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 13.	06 / 07 / 08 09 / 10 / 11	 x240
VE702	VE702 White				



Article	Ref./Colours	Standard	Description	Sizes	
VE702PG 	VE702PG Grey	CE  EN388 4, 1, 2, 1	100% polyester. Polyurethane coating on palm and fingertips. Gauge 13. 	06 / 07 / 08 09 / 10	x240
VE702P 	VE702P White	CE  EN388 4, 1, 2, 1	100% polyester. Polyurethane coating on palm and fingertips. Gauge 13. 	06 / 07 / 08 09 / 10	x240

HANDLING IN OILY ENVIRONMENTS


NITRILE COATING

VE722



- Foam nitrile :
- Breathable liner
 - Increased dexterity
 - Comfort



Article	Ref./Colours	Standard	Description	Sizes	
VE722	VE722NO Black-Grey	CE  EN388 4, 1, 2, 1	100% polyester. Foam nitrile coating on palm and fingertips. Gauge 13.	07 / 08 09 / 10	x240

VE726



- Gauge 15:
- Provide super flexible feeling




VE727



- Dots :
- Excellent grip
 - Anti-slip



Article	Ref./Colours	Standard	Description	Sizes	
VE726	VE726NO Grey-Black	CE  EN388 3, 1, 3, 1	100% polyamide Spandex. Nitrile/Polyurethane coating on palm and fingertips. Gauge 15.	07 / 08 09 / 10	x120
VE727	VE727NO Grey-Black		100% polyamide Spandex. Nitrile/Polyurethane coating on palm and fingertips. Nitrile dots on palm. Gauge 15.		

VULCAIN



Double nitrile coating to work in oil environments :

- First smooth nitrile coating : Oil permeability
- Second foam nitrile coating : Good grip

Double coating:

- Excellent grip
- Abrasion resistance
- Breathability



NITRILE COATING

RESISTANCE

- Abrasion

ADVANTAGE

- Excellent performances in oily and greasy environment

Article	Ref./Colours	Standard	Description	Sizes	
VULCAIN	VW728JA Yellow-Grey-Black	CE  EN388 4, 1, 2, 1	100% high quality polyester. Smooth nitrile coating/foam nitrile on palm and fingertips. Gauge 13.	07 / 08 09 / 10	 x120

HANDLING IN OILY ENVIRONMENTS



NITRILE COATING

VE713



- 3/4 Nitrile coating :
- Increased protection of fingers
 - Protection against oils
 - Strength at joints
 - Long lifespan



- Double coating :
- A hardwearing nitrile layer
 - A breathable nitrile layer
 - Abrasion resistance
 - Oils' protection
 - Breathability

Article	Ref./Colours	Standard	Description	Sizes	
VE713	VE713 Black	CE  EN388 4, 1, 2, 1	100% polyamide. Double nitrile coating on palm, fingers and half back. Gauge 13.	07 / 08 09 / 10	 x240



Article	Ref./Colours	Standard	Description	Sizes	
VE715 	VE715GR Black-Grey	CE  EN388 4, 1, 2, 1	100% polyester. 3/4 nitrile coating on palm and fingertips. Gauge 13. 	07 / 08 09 / 10	x120
VE712GR 	VE712GR Black-Grey	CE  EN388 4, 1, 2, 1	100% polyester. Nitrile coating on palm and fingertips. Gauge 13. 	07 / 08 09 / 10	x240



Article	Ref./Colours	Standard		Description	Sizes	
EOS	VV900JA Yellow	CE	 EN388 4, 2, 3, 3	EN1621-2 Polyester/polyurethane back. PVC reinforcements. Polyamide/polyurethane palm with PVC dots. 8 cm cuff in neoprene.	08 / 09 10 / 11	x60



Flexible reinforcements
for better impact and
pinching protection



Reinforcement between the
thumb and index finger and on
the palm

Very good abrasion and cut resistance

Wash in cold water
Yellow colour for better visibility

Tear release fastening: a perfect
adjustment.
Limit the problems caused at the
wrist during prolonged use

8 cm wrist in neopren: safe and
comfort



Double thickness of polyamide/
polyurethane on palm with PVC
dots: antislip



Identification badge
Belt clip



Protection of the metacarpals about a
force of 2 J (means 4,8 kN)



Protection of the metacarpals about a force of
2 J (One weight of 1 kg on a distance of 20 cm):
diminution of the impact about 44% (means 4,8 kN*).
Tested under the European standard EN1621-2 (Hand's
back test).

GENERAL HANDLING

NYSOS






Double thickness of lining:

- Gel 0.3
- Foam 0.7

Foam for shock absorption
Outside work
Anti-vibration

Tear release fastening: a perfect adjustment.
Limit the problems caused at the wrist during prolonged use



Article	Ref./Colours	Standard			Description	Sizes	
NYSOS	VV904JA Yellow-Black		 EN388 3, 5, 3, 2	EN ISO 10819	Polyester/elasthane back. Polyurethane/polyamide palm. Double thickness: gel and foam. Cuff in neoprene.	10 / 11	x60

BOROK







Tear release fastening: a perfect adjustment.
Limit the problems caused at the wrist during prolonged use

Repellent back

Cold protection
3M Thinsulate™ lining



Article	Ref./Colours	Standard			Description	Sizes	
BOROK	VV903GR Black-Grey		 EN388 2, 2, 1, 1	 EN511 1, 1, 1	Polyester back with polyuréthane coating. Polyuréthane/ polyester palm. 3M Thinsulate™ lining. Neoprene wrist.	07 / 09 / 11	x60

ATHOS



Tear release fastening: a perfect adjustment.
Limit the problems caused at the wrist during prolonged use

Flexible reinforcements for better impact and pinching protection



Article	Ref./Colours	Standard	Description	Sizes	
ATHOS	VV902JA Yellow-Black	CE  EN388 3, 1, 2, 1	Polyester/elasthane back. Polyamide palm. PVC reinforcements on back and palm. Cuff in mesh.	10 / 11	x60

BOREE



Tear release fastening: a perfect adjustment.
Limit the problems caused at the wrist during prolonged use

Ventilated back for a better breathability



Article	Ref./Colours	Standard	Description	Sizes	
BOREE	VV901JA Yellow	CE  EN388 2, 1, 2, 1	Polyester/elasthane back. Polyamide palm. Cuff in neoprene.	07 / 09	x60

GENERAL HANDLING

COLD PROTECTION

APOLLON WINTER



Very good cold protection



Resistance to abrasion, small cuts and perforation





- Waterproof coating
- Flexibility, elasticity
- Ketone resistant



Scratch acrylic support :

- Cold protection
- Scratching : Excellent comfort, keeps hands warm in cold conditions



Article	Ref./Colours	Standard			Description	Sizes	
APOLLON WINTER	VV735JA Fluo yellow-Black		 EN388 1, 2, 3, 2	 EN511 0, 1, X	100% acrylic. Foam latex coating on palm and fingertips. Gauge 10.	09 / 10	x120
	VV735GR Grey-Black						

HERCULE



3/4 Coating :

- Full protection of the fingers against cold and water
- Long lifespan

Scratch acrylic support :

- Cold protection
 - Scratching : Excellent comfort, keeps hands warm in cold conditions
- Polyamide support :
- High flexibility



Very good cold protection



Article	Ref./Colours	Standard		Description	Sizes	
HERCULE	VV750 Black	CE	EN388 3, 2, 3, 1	EN511 X, 2, X	Inside: 100% acrylic gauge 7. Outside: 100% polyamide gauge 13. 3/4 foam nitrile coating on palm, fingers and half back.	09 / 10 x60

VE740



Article	Ref./Colours	Standard		Description	Sizes	
VE740	VE740 Grey		 EN388 2, 1, 4, 2	65% polyester, 35% cotton. Rough latex coating on palm and fingertips. Gauge 10.	09 / 10	x120


GENERAL HANDLING
LATEX COATING

APOLLON



Foam Latex :
• Very soft coating, excellent dexterity
• Breathable coating, prevents perspiration build up



Article	Ref./Colours	Standard	Description	Sizes	
APOLLON	VV733OR Fluo orange-Black	CE  EN388 3, 1, 3, 1	100% high quality polyester - Flashy Yellow color. Latex coating on palm and fingertips. Gauge 13.	07 / 08 09 / 10	x120
	VV733 Fluo yellow-Black				

ARES



Preformed glove shape prevents hand fatigue

Soft latex



LATEX COATING

RESISTANCE

- Abrasion
- Small cuts
- Perforation

ADVANTAGE

- Waterproof coating
- Flexibility, elasticity
- Ketone resistant

Article	Ref./Colours	Standard	Description	Sizes	
ARES	VV8300R Yellow-Orange	CE  EN388 2, 2, 4, 2	50% polyester 50% cotton. High quality latex coating on palm and fingertips. Gauge 10.	07 / 08 09 / 10	 x120

GENERAL HANDLING

LATEX COATING

Article	Ref./Colours	Standard	Description	Sizes	
VE631 	VE631BL Blue-Black	CE EN388 1, 1, 3, 1	100% polyester. Foam latex coating on palm and fingertips. Gauge 13. 	07 / 08 09 / 10	x120
VE630 	VE630GR Grey-Black	CE EN388 3, 1, 2, 1	100% polyester. Latex coating on palm and fingertips. Gauge 13. 	07 / 08 09 / 10	x120
VE7300R 	VE7300R Yellow-Orange	CE EN388 2, 2, 4, 2	50% cotton 50% polyester. Rough latex coating on palm and fingertips. Gauge 10. 	08 / 09 / 10	x120
VE799 	VE79910 White-Red	CE EN388 3, 1, 3, 1	65% cotton 35% polyester. Transparent full coating in natural latex on full hand and laminated red latex on palm and fingertips. Gauge 10. 	10	x120



**BASEBALL
DIAMOND V**
p. 30

MOONLIGHT
p. 240

ARES
p. 87

M2PAN
p. 163



HEAVY WORKS

LATEX ON JERSEY LINING

VENIZETTE 920







Cotton jersey lining :

- Better mechanical and thermal protection
- Better comfort

Resistant to 100°C heat contact for 15 secs.

Maximum abrasion resistance
Suppleness



Article	Ref./Colours	Standard			Description	Sizes	
VENIZETTE 920	VE920BL Blue	CE	 EN388 4, 1, 2, 1	 EN407 X, 1, X, X, X, X	Latex on cotton jersey lining. Length: 30 cm. Thickness: 1,25 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	x120
			 EN374-3 AKL				

LAT50



Rough-textured palm :

- Excellent grip

Resistant to 100°C heat contact for 15 secs.



Article	Ref./Colours	Standard		Description	Sizes		
LAT50	LAT50 Green		 EN388 3, 1, 2, 1	 EN407 X, 1, X, X, X, X	Latex on cotton jersey lining. Rough textured palm and back. Length: 30 cm. Thickness: 1,80 mm.	7/8 - 8/9 9/10 - 10/11	x120
			 EN374-3 AKL				





VENIFISH 990



Rough-textured palm :
• Excellent grip of very slipping objects

Chemical product and heat resistance



Article	Ref./Colours	Standard		Description	Sizes		
VENIFISH 990	VE9900R Orange	CE	 EN388 3, 1, 2, 1	 EN407 X, 1, X, X, X, X	Latex on cotton jersey lining. Rough textured palm and back. Length: 30 cm. Thickness: 1,80 mm.	7/8 - 8/9 9/10 - 10/11	x120
			 EN374-3 AKL				


LA500



Jersey cotton lining with ventilated back :
• Comfort
• Better breathability

High quality coating :
• Very good grip



Article	Ref./Colours	Standard		Description	Sizes	
LA500	LA500 White-Green	CE	 EN388 2, 1, 2, 1	Latex rough-textured on cotton jersey lining. Knitted wrist. Ventilated back.	07 / 08 09 / 10	x120



HEAVY WORKS

NITRILE ON JERSEY LINING

NI170



Nitrile on jersey lining:

- Few sensibility to heat
- Excellent performances in oily and greasy environments


Jersey cotton lining with ventilated back :

- Comfort
- Better breathability

6-cm safety cuff :

- Clothes protection
- Easier to put on and take off



Article	Ref./Colours	Standard	Description	Sizes	
NI170	NI170 White-Blue	CE  EN388 4, 2, 1, 1	Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Ventilated back.	10	x120

NI175



Nitrile on jersey lining:

- Heat resistant
- Excellent performances in oily and greasy environments


6-cm safety cuff :

- Clothes protection
- Easier to put on and take off

Full protection of the hand :

- Back hand protection



Article	Ref./Colours	Standard	Description	Sizes	
NI175	NI175 Blue	CE  EN388 4, 2, 1, 1	Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Fully coated.	09 / 10 / 11	x120

NI150



Nitrile on jersey lining:

- Heat resistant
- Excellent performances in oily and greasy environments

Jersey cotton lining with ventilated back :

- Comfort
- Better breathability



Article	Ref./Colours	Standard		Description	Sizes	
NI150	NI150 White-Blue	CE	EN388 4, 2, 1, 1	Nitrile on cotton jersey lining. Knitted wrist. Ventilated back.	07 / 08 09 / 10	x120

NI155



Nitrile on jersey lining:

- Heat resistant
- Excellent performances in oily and greasy environments

Full protection of the hand :

- Back hand protection



Article	Ref./Colours	Standard		Description	Sizes	
NI155	NI155 Blue	CE	EN388 4, 2, 1, 1	Nitrile on cotton jersey lining. Knitted wrist. Fully coated.	10	x120



WORKS REQUIRING CHEMICAL RESISTANCE

NEOPRENE - UNSUPPORTED

PVCC600






60 cm

PVC :
• Excellent resistance to abrasion
• Repels oils chemical products and petrol derivatives

Full arm protection



Article	Ref./Colours	Standard				Description	Sizes	
PVCC600	PVCC600 Red		 EN388 4, 1, 2, 1	 EN374-3 AKL	Chemical PVC. PVC on cotton jersey lining. Length: 60 cm. Thickness: 1,30 mm.	10	x60	
	 EN374-2							

PVCC400






40 cm

PVC :
• Excellent resistance to abrasion
• Repels oils chemical products and petrol derivatives

Length 40 cm :
• Forearm protection



Article	Ref./Colours	Standard			Description	Sizes	
PVCC400	PVCC400 Red	CE	 EN388 4, 1, 2, 1	 EN374-3 AKL	Chemical PVC. PVC on cotton jersey lining. Length: 40 cm. Thickness: 1,30 mm.	10	x120
			 EN374-2				

PVCC350



35 cm

PVC :

- Excellent resistance to abrasion
- Repels oils chemical products and petrol derivatives



Article	Ref./Colours	Standard		Description	Sizes	
PVCC350	PVCC350 Red	CE	EN388 4, 1, 2, 1 EN374-2	EN374-3 AKL Chemical PVC. PVC on cotton jersey lining. Length: 35 cm. Thickness: 1,30 mm.	10	x120

PVCC270



27 cm

PVC :

- Excellent resistance to abrasion
- Repels oils chemical products and petrol derivatives



Article	Ref./Colours	Standard		Description	Sizes	
PVCC270	PVCC270 Red	CE	EN388 4, 1, 2, 1 EN374-2	EN374-3 AKL Chemical PVC. PVC on cotton jersey lining. Length: 27 cm. Thickness: 1,30 mm.	10	x120



HEAVY WORKS





PVC ON JERSEY LINING

VE760



Acrylic lining :
• Cold protection



Article	Ref./Colours	Standard			Description	Sizes	
VE760	VE7600R Orange		 EN388 4, 2, 2, 1	 EN511 1, 2, 1	PVC on cotton jersey lining. Acrylic lining. Length: 30 cm.	10	x60





VE780



Anti-slip grained-texture

Good abrasion resistance



Article	Ref./Colours	Standard			Description	Sizes	
VE780	VE780BL Blue	CE	 EN388 4, 1, 2, 1	 EN374-3	PVC on cotton jersey lining. Rough-textured palm. Length: 30 cm.	08 / 09 / 10	x120
			 EN374-2				

Article	Ref./Colours	Standard	Description	Sizes	
PVC ON JERSEY LINING					
PVC7335		PVC7335 Red	CE EN388 4, 1, 1, 1 EN374-3 EN374-2 	10	x120
PVC7327		PVC7327 Red	CE EN388 4, 1, 1, 1 EN374-3 EN374-2 	10	x120
DA109		DA109 White-Red	CE EN388 3, 1, 2, 1 	07 / 08 / 09	x120
NITRILE ON JERSEY LINING					
NI015		NI015 White-Yellow	CE EN388 4, 1, 1, 1 	07 / 08 09 / 10 / 11	x120
LATEX ON JERSEY LINING					
LA110		LA110 White-Yellow	CE EN388 2, 1, 2, 1 	10	x120



WORKS REQUIRING CHEMICAL RESISTANCE

NEOPRENE - UNSUPPORTED

NEOCOLOR 530



Neoprene / Latex mix :
• Good flexibility

Flocked lining :
• Absorbs perspiration
• Comfort



Article	Ref./Colours	Standard		Description	Sizes	
NEOCOLOR 530	VE530BM Black	CE	EN388 3, 1, 1, 0	EN374-3 ABK Latex/Neoprene mix with cotton flocklining. Length: 30 cm. Thickness: 0,70 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	x120

TOUTRAVO 510



Flocked lining :
• Absorbs perspiration
• Comfort

Length 38 cm :
• Complete protection of the forearm



Article	Ref./Colours	Standard		Description	Sizes	
TOUTRAVO 510	VE510NO Black	CE	EN388 4, 1, 1, 0	EN374-3 ABJ Neoprene with cotton flocklining. Length: 38 cm. Thickness: 0,75 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	x120

TOUTRAVO 509



Flocked lining :
 • Absorbs perspiration
 • Comfort

NEOPRENE - UNSUPPORTED

RESISTANCE

- Abrasion

ADVANTAGE

- Waterproof (Water, Alcohol, and cleaners)
- Good heat resistance
- Excellent protection against chemicals, greases and hydrocarbons

Article	Ref./Colours	Standard		Description	Sizes	
TOUTRAVO 509	VE509NO Black	CE	EN388 4, 1, 1, 0	EN374-3 ABJ	Neoprene with cotton flocklining. Length: 30 cm. Thickness: 0,75 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11 x120

WORKS IN INDUSTRY

NITRILE - UNSUPPORTED

NITREX 802



Raised pattern texture on palm and fingers :
• Anti-slip

Flocked lining :
• Absorbs perspiration
• Comfort

Silicone free :
• For specific uses



Article	Ref./Colours	Standard			Description	Sizes	
NITREX 802	VE802VE Green	CE	 EN388 4, 1, 0, 1	 EN374-2	Nitrile with cotton flocklining. Length: 33 cm. Thickness: 0,40 mm.	06 / 07 / 08 09 / 10	x120
			 EN374-3 AJKL				

NITREX 846



Flocked lining nitrile:
• Abrasion resistance
• Waterproof and airtight
• Few sensibility to heat
• No allergy risk

Length 46 cm :
• Complete protection of the arm



Article	Ref./Colours	Standard			Description	Sizes	
NITREX 846	VE846VE Green		<div>EN388 4, 1, 0, 1</div> <div>EN374-3 AJK</div>		Thin nitrile. Chlorinated smooth inside. Length: 46 cm. Thickness: 0,55 mm.	8/9 - 9/10 10/11	x36

NITREX 830



Chlorinated inside :

- Easy to put on

Blue colour :

- Suitable for food industry



Article	Ref./Colours	Standard		Description	Sizes	
NITREX 830	VE830BL Blue	CE	EN388 2, 0, 0, 1 EN374-3 AJKL	Thin nitrile. Chlorinated smooth inside. Length: 33 cm. Thickness: 0,20 mm.	7/8 - 8/9 9/10 - 10/11	x120

NITREX 801



Raised pattern texture on palm and fingers :

- Anti-slip

Flocked lining :

- Absorbs perspiration
- Comfort

Silicone free :

- For specific uses



Article	Ref./Colours	Standard		Description	Sizes	
NITREX 801	VE801VE Green	CE	EN388 2, 1, 3, 1 EN374-3 KLJ	Nitrile with cotton flocklining. Length: 33 cm. Thickness: 0,40 mm.	7 / 8 / 9 / 10 / 11	x120



WORKS IN INDUSTRY





LATEX - UNSUPPORTED

LA600



Very thick and long :
• Reinforced protection of the arm







Article	Ref./Colours	Standard			Description	Sizes	
LA600	LA600 Black		 EN388 4, 0, 1, 1	 EN374-3 AKL	Reinforced latex. Smooth inside and outside. Length: 60 cm. Thickness: 1,15 mm.	10 / 11	x36

VENIPRO 450



Very thick :
• Excellent mechanical resistance



Article	Ref./Colours	Standard			Description	Sizes	
VENIPRO 450	VE450OR Orange	CE	 EN388 3, 1, 2, 1	 EN374-3 ABK	Heavy weight latex with cotton flock lining. Length: 30 cm. Thickness: 1 mm.	8/9 - 9/10 10/11	x120
			 EN374-2				

ALPHA 905



Unsupported latex:

- Abrasion and tear resistance
- Waterproof and airtight
- Flexibility, elasticity and extra sensivity

Chlorinated inside :

- Easy to put on
- Reduce allergies risks



Article	Ref./Colours	Standard		Description	Sizes	
ALPHA 905	VE905NA Natural	CE	EN388 1, 0, 1, 1	EN374-3 ABK Latex, chlorinated smooth inside. Length: 30 cm. Thickness: 0,45 mm.	6/7 - 7/8 8/9 - 9/10	x144

VE440



Flocked lining :

- Absorbs perspiration
- Comfort



- Rough structure :
- Excellent grip

VE460



Elasticated cuff :

- Ideal dishwashing



Article	Ref./Colours	Standard		Description	Sizes	
VE440	VE440BL Blue	CE	EN388 1, 0, 2, 0	EN374-3 ABK Latex with cotton flock lining. Length: 32 cm. Thickness: 0,55 mm.	6/7 - 7/8 8/9 - 9/10	x144
VE460	VE460RS Pink			Latex, smooth inside. Length: 53 cm. Thickness: 0,80 mm.	7	x12



WORKS IN INDUSTRY

LATEX - UNSUPPORTED

Article	Ref./Colours	Standard	Description	Sizes	
ZEPHIR 210 	VE210RO Pink	CE EN388 1, 0, 1, 0 EN374-3	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm. 	6/7 - 7/8 8/9 - 9/10	x144
PICAFLO 240 	VE240JA Yellow	CE EN388 1, 0, 1, 0 EN374-3	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm. 	6/7 - 7/8 8/9 - 9/10	x144
DUOCOLOR 330 	VE330BJ Blue-Yellow	CE EN388 1, 0, 1, 0 EN374-3 ABK	Latex with cotton flock lining, double-dipped. Length: 30 cm. Thickness: 0,60 mm. 	6/7 - 7/8 8/9 - 9/10	x144



GALERAS
p. 22

M6200
p. 54

M5COM
p. 158

NITREX 802
p. 100

DISPOSABLE FINE GLOVES

LATEX

MANUTEX 1382



30 cm



Thickness : 0,25 mm

Distinction between left and right hand.

- Latex:
- Waterproof and airtight
 - Flexibility, elasticity and tactility
 - Protection against small and low concentrated chemical splashes

Article	Ref./Colours	Standard		Description	Sizes	
MANUTEX 1382	V1382 Natural	CE	EN374-3	EN374-2	Powdered latex AQL 1,5. Length: 30 cm. Thickness: 0,25 mm. Box of 100 disposable pairs of gloves.	6/7 - 7/8 8/9 - 9/10
						x3

VENITACTYL 1400B100



Nitrile:

- Waterproof and airtight
- Flexibility, elasticity and tactility
- No allergies risks
- Protection against chemical products (occasional contact)

Blue colour :

- Easier to see in the workplace

Powder-free glove :

- Protection of the object as no risk of leaving particles

Article	Ref./Colours	Standard		Description	Sizes	
VENITACTYL 1400B100	V1400B100 Blue	CE	EN374-3	EN374-2 Powder-free nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 8/9 - 9/10	x10

VENITACTYL 1400PB100



Nitrile:

- Waterproof and airtight
- Flexibility, elasticity and tactility
- No allergies risks
- Protection against chemical products (occasional contact)

Blue colour :

- Easier to see in the workplace

Powdered glove :

- Easy to put on

Article	Ref./Colours	Standard		Description	Sizes	
VENITACTYL 1400PB100	V1400PB100 Blue	CE	EN374-3	EN374-2 Powdered nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 8/9 - 9/10	x10

DISPOSABLE FINE GLOVES

LATEX

VENICLEAN 1340



Latex:

- Waterproof and airtight
- Flexibility, elasticity and tactility
- Protection against small and low concentrated chemical splashes

Powder-free glove :

- Protection of the object as no risk of leaving particles

Article	Ref./Colours		Standard	Description	Sizes	
VENICLEAN 1340	V1340 Natural	CE	EN374-3 EN374-2	Powder-free chlorinated latex. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 8/9	x10

VENITACTYL 1310



Latex:


















- Waterproof and airtight
- Flexibility, elasticity and tactility
- Protection against small and low concentrated chemical splashes

Powdered glove :

- Easy to put on

Article	Ref./Colours		Standard	Description	Sizes	
VENITACTYL 1310	V1310 Natural	CE	EN374-3 EN374-2	Powdered latex. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 8/9	x10



Article	Ref./Colours	Standard	Description	Sizes	
VINYL					
VENITACTYL 1350 	V1350 Blue	CE  EN374-3 	Powdered vinyl. Suitable for food industry. AQL 2,5. Box of 100 disposable gloves.   	6/7 - 7/8 8/9 - 9/10	x10
VENITACTYL 1371 	V1371 Natural	CE  EN374-3  EN374-2 	Powdered vinyl. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.   	6/7 - 7/8 8/9 - 9/10	x10
POLYETHYLENE					
VENITACTYL 1390 	V1390 Clear		Polyethylene. Box of 100 disposable gloves.  	9 / 10 - 10 / 11	x80

HANDLING IN WET ENVIRONMENTS

COWHIDE FULL GRAIN LEATHER



BUCH520V



Polyester foam :
• Very good resistance to tear and puncture
• Ideal glove for gardening

Water-repellent leather





Article	Ref./Colours	Standard	Description	Sizes	
BUCH520V	BUCH520V Green-Blue	CE  EN388 3, 1, 2, 4	Water-repellent cowhide full grain leather. Palm, thumb and metacarpal in polyester foam. Kevlar® Technology sewn.	08 / 09 10 / 11	 x36

FBH60



Water-repellent leather



Article	Ref./Colours	Standard	Description	Sizes	
FBH60	FBH60 Yellow	CE  EN388 2, 1, 2, 2	Water-repellent cowhide full grain leather. American assembly.	08 / 09 10 / 11	 x120

FIBKV02




Kevlar® lining :

- Better resistance to cut, tear and puncture

Special water-repellent treatment:

- Resistance to water penetration
- Better abrasion
- More comfort and flexibility



Article	Ref./Colours	Standard	Description	Sizes	
FIBKV02	FIBKV02 Buff-coloured	CE  EN388 4, 3, 4, 3	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	x60

FB149



High quality



FIB49





Reverse hide full grain palm :

- Very good flexibility
- Better abrasion resistance



Water-repellent treatment on full grain leather is 10 times more efficient than on split leather

Article	Ref./Colours	Standard	Description	Sizes	
FB149	FB149 Beige	CE  EN388 2, 1, 2, 2	Cowhide full grain leather. High quality leather. American assembly.	08 / 09 / 10	x120
FIB49	FIB49 Buff-coloured	CE  EN388 4, 1, 2, 2	Water-repellent cowhide full grain leather. Reverse hide cowhide full grain leather palm.	09 / 10	



GENERAL HANDLING

COWHIDE FULL GRAIN LEATHER

CBHV2



Vein protection

Water-repellent leather



Article	Ref./Colours	Standard		Description	Sizes	
CBHV2	CBHV2 Buff-coloured	CE	EN388 3, 1, 2, 1	Water-repellent cowhide full grain leather. American assembly. Knitted wrist and vein protection.	08 / 09 10 / 11	x36

FC129



GFA402



Lambskin leather :
• Flexibility and dexterity



Article	Ref./Colours	Standard		Description	Sizes	
FC129	FC129 Grey	CE	EN388 2, 1, 2, 1	Cowhide grain leather palm. Cowhide split leather back. American assembly.	08 / 09 10 / 11	x120
GFA402	GFA402 Grey		EN388 2, 1, 1, 1	Lambskin full grain leather. American assembly.	07 / 08 09 / 10 / 11	



51FEDF



Goatskin leather :
• Flexibility, dexterity

Vein protection

GFBLE



Vein protection

Article	Ref./Colours	Standard	Description	Sizes	
51FEDF	51FEDF Natural	EN388 2, 1, 1, 1	Goatskin full grain leather. American assembly. Knitted wrist and vein protection.	08 / 09 / 10	x120
GFBLE	GFBLE Grey	EN388 3, 1, 2, 2	Cowhide full grain leather. American assembly. Knitted wrist and vein protection.	07 / 08 09 / 10 / 11	

52FEDFP



Dived Tanning Process :
• Special treatment making the leather very supple

Vein protection

50MAC



Cotton open-work :
• Palm's anti-shocks protection
Better ergonomics
Lambskin leather :
• Flexibility, dexterity

Article	Ref./Colours	Standard	Description	Sizes	
52FEDFP	52FEDFP Natural	EN388 2, 1, 2, 2	Cowhide full grain leather with divided tanning process. Full index. Knitted wrist and vein protection.	08 / 09 10 / 11	x120
50MAC	50MAC Grey		Lambskin full grain leather. Reinforced palm. Knitted open-work back.	07 / 08 09 / 10 / 11	

GENERAL HANDLING

COWHIDE FULL GRAIN LEATHER

Article	Ref./Colours	Standard	Description	Sizes	
COWHIDE FULL GRAIN LEATHER					
FBN49 	FBN49 Grey	CE EN388 3, 1, 2, 2	Cowhide full grain leather. American assembly. 	07 / 08 09 / 10 / 11	x120
FBJA49 	FBJA49 Yellow	CE EN388 2, 1, 2, 1	Cowhide full grain leather. American assembly. 	08 / 09 / 10	x120
GOATSKIN LEATHER - CLOTH BACK					
CT402 	CT402BL Natural-Blue	CE EN388 2, 1, 1, 1	Goatskin full grain leather palm. Cotton jersey back. American assembly. 	07 / 08 09 / 10 / 11	x120



Article	Ref./Colours	Standard	Description	Sizes	
PIGSKIN FULL GRAIN LEATHER					
FP159 	FP159 Buff-coloured	CE  EN388 2, 1, 1, 1	Pigskin full grain leather. American assembly. 	09 / 10	x120
COWHIDE SPLIT LEATHER					
FCN29 	FCN29 Grey	CE  EN388 2, 1, 2, 1	Cowhide grain leather palm. Full index. Cowhide split leather back. American assembly. 	08 / 09 10 / 11	x120
TC149 	TC149 Grey	CE  EN388 3, 1, 3, 2	Full cowhide split leather. Full index. Reinforced finger seams. Elasticated back. American assembly. 	10	x120

HANDLING IN COLD ENVIRONMENTS

COWHIDE LEATHER

FBF50



3M Thinsulate™ :
• Humidity and cold resistance
• Washable

Clip fastener

Article	Ref./Colours	Standard		Description	Sizes	
FBF50	FBF50 Beige	CE	EN388 2, 1, 2, 2	EN511 1, 2, X Cowhide full grain leather with 3M Thinsulate™ lining. Clip fastener. American assembly.	09 / 10	x60

FBF49



DCTHI



Article	Ref./Colours	Standard		Description	Sizes	
FBF49	FBF49 Beige	CE	EN388 2, 2, 2, 2	EN511 1, 2, X Cowhide full grain leather with acrylic lining. American assembly.	09 / 10	x60
DCTHI	DCTHI Brown-Red		EN388 3, 2, 3, 3	Cowhide split leather with 3M Thinsulate™ lining. Canvas back with leather reinforcement. Canvas cuff.	10	



Article	Ref./Colours	Standard	Description	Sizes	
COWHIDE FULL GRAIN LEATHER					
FBF15	FBF15 Yellow	CE EN388 2, 2, 2, 3 EN511 1, 3, X	Cowhide full grain leather with acrylic lining. Elasticated cuff on palm and lining which covers cuff edge. Clip fastener. American assembly. 	08 / 10 / 11	x60
COWHIDE SPLIT LEATHER					
DF132	DF132 Brown-Yellow	CE EN388 3, 1, 3, 2 EN511 1, 2, 0	Cowhide split leather with flannel-lining. Canvas back with leather reinforcement. Elasticated knitted wrist. 	10	x120
FURNITURE COWHIDE GRAIN LEATHER					
DRF605	DRF605 Matched colours	CE EN388 3, 1, 2, 2 EN511 1, 2, X	Furniture cowhide grain leather with acrylic fleece-lining. Canvas back with leather reinforcement. Canvas cuff. 	10	x60

GENERAL HANDLING

CANADIEN PATTERN

Article	Ref./Colours	Standard	Description	Sizes	
COWHIDE SPLIT LEATHER / COTTON CANVAS					
DS202RP 	DS202RP Grey-Blue	CE  EN388 4, 2, 2, 3	Cowhide split leather with cotton canvas lining. Reinforcement on palm, thumb and index. Canvas back with leather reinforcement. 	10	x120
DS302R 	DS302R Dark yellow	CE  EN388 2, 1, 4, 3	Cowhide split leather. Grain leather reinforcement on palm. Canvas back with leather reinforcement. Reinforced canvas cuff. 	10	x120
BLACK 	BLACK Black-Yellow	CE  EN388 3, 1, 3, 2	Cowhide split leather. Palm with cotton fleece lining. Canvas back with leather reinforcement. Reinforced canvas cuff. 	10	x120



Article	Ref./Colours	Standard	Description	Sizes	
COWHIDE FULL GRAIN LEATHER / COTTON CANVAS					
GDB505	 GDB505 Grey-White	CE EN388 2, 1, 2, 2	High quality cowhide split leather. Palm with cotton fleece lining. Canvas back with leather reinforcement. Reinforced canvas cuff.	10	x120
FURNITURE COWHIDE GRAIN LEATHER / COTTON CANVAS					
DR605	 DR605 Matched colours	CE EN388 3, 1, 1, 2	Furniture cowhide grain leather. Canvas back with leather reinforcement. Reinforced canvas cuff.	10	x120
PIGSKIN FULL GRAIN LEATHER / COTTON CANVAS					
DP302	 DP302 Beige	CE EN388 3, 1, 1, 1	Pigskin grain leather with lining. Canvas back with leather reinforcement. Reinforced canvas safety cuff.	10	x120
COWHIDE SPLIT LEATHER / COTTON CANVAS					
DC103	 DC103 Beige	CE EN388 3, 1, 2, 2	Cowhide split leather. Canvas back with leather reinforcement. Reinforced canvas cuff.	10	x120

WELDERS

GOATSKIN/LAMBSKIN/COWHIDE LEATHER

TIG15K



Goatskin leather :
• Flexibility, dexterity
• Very good mechanical resistance

Heat resistant welder gloves:
• Very good mechanical resistance
• Flame resistant, heat resistant and big molten metal spray

TC716



15-cm heat resistant split cuff :
• Forearm protection

Article	Ref./Colours	Standard		Description	Sizes	
TIG15K	TIG15K Grey	CE	EN388 2, 1, 2, 1 EN12477 TYPE B	EN407 4, 1, X, X, 4, X	Goatskin full grain leather. 15 cm cowhide split leather cuff. Kevlar® Technology sewn. American assembly. Length: 35 cm.	08 / 09 / 10 x36
TC716	TC716 Grey		EN388 2, 1, 4, 2 EN12477 TYPE A	EN407 4, 1, 3, X, 4, X	Cowhide split leather. 15 cm cuff. American assembly. Length: 35 cm.	09 / 10 / 11 x120

GFA115K



Lambskin leather :
• Flexibility and dexterity

Kevlar® seams

FC115



• Vein protection

Article	Ref./Colours	Standard		Description	Sizes	
GFA115K	GFA115K Grey	CE	EN388 2, 1, 1, 1 EN12477 TYPE B	EN407 4, 1, X, X, 4, X	Lambskin full grain leather. 15 cm cowhide split leather cuff. Kevlar® Technology seams. Fourchette assembly. Length: 34 cm.	x120
FC115	FC115 Grey		EN388 2, 1, 2, 1	EN407 X, 1, X, X, X, X	Cowhide grain leather palm with full index. Cowhide split leather back and cuff (15 cm). American assembly. Length: 35 cm.	x60

TER250



Heat-resistant leather (HR) :

- Better Resistance to contact heat
- Reduction of the reactivity on flames contact
- Flexible leather

Kevlar® seams



Article	Ref./Colours	Standard		Description	Sizes	
TER250	TER250 Brown-Grey	CE	EN388 4, 2, 4, 4 EN12477 Type A	EN407 4, 1, 4, 2, 4, X Heat-resistant cowhide split leather palm (HR). Wool fleece lining on palm. 20 cm cuff with canvas lining. Kevlar® Technology sewn. American assembly. Length: 40 cm.	10	x60

TERK400



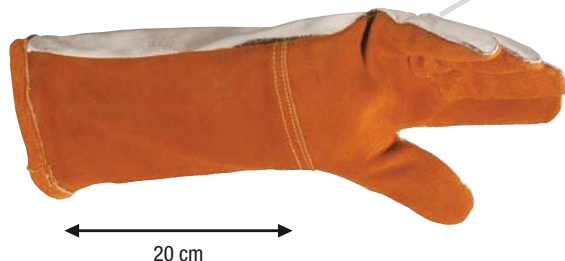
Kevlar® Preox Alu :

- High resistance to radiating heat

Heat-resistant leather (HR) :

- Better Resistance to contact heat
- Reduction of the reactivity on flames contact
- Flexible leather

Thickness : 1,20 to 1,40 mm



Article	Ref./Colours	Standard		Description	Sizes	
TERK400	TERK400 Orange-Alu	CE	EN388 4, 2, 4, 4 EN12477 Type A	EN407 4, 1, 3, 4, 4, 4 Heat-resistant cowhide split leather palm (HR). Aluminised Kevlar Preox® back. Wool fleece lining. 20 cm cuff. Kevlar® Technology sewn. American assembly. Length: 40 cm. Thickness: 1,20 mm to 1,40 mm.	10	x36



WELDERS

COWHIDE LEATHER

Article	Ref./Colours	Standard	Description	Sizes	
CA615K 	CA615K Red	CE EN388 3, 1, 3, 3 EN407 4, 1, 3, X, 4, X EN12477 TYPE A	High quality heat-resistant split leather (HR). Cuff with canvas lining. Kevlar® Technology sewn. American assembly. Length: 35 cm. 	10	x60
CA515R 	CA515R Red	CE EN388 3, 1, 3, 3 EN407 4, 1, 3, X, 4, X EN12477 TYPE A	Heat-resistant cowhide split leather (HR). Hand with cotton fleece lining. Cuff with canvas lining. American assembly. Length: 35 cm. 	10	x60
TC715 	TC715 Grey	CE EN388 2, 1, 4, 2 EN407 4, 1, 3, X, 4, X EN12477 TYPE A	Cowhide split leather. 15 cm cuff. American assembly. Length: 35 cm. 	10	x120

CRYOG




Aluminised polyester:
• Thermal protection

Water-repellent treatment:
• Resistance to water penetration
• Better abrasion
• More comfort and flexibility



Adhesive tape :
• Quick fitting and removal
Conform to MR019
Tested to Nitrogen Gas

Article	Ref./Colours	Standard			Description	Sizes	
CRYOG	CRYOG Light yellow		 EN388 2, 2, 2, 2	 EN511 2, 2, 1	Water-repellent goatskin full grain leather. Aluminized polyester insert. Hand and cuff with wool lining. 20 cm cowhide split leather cuff. American assembly. Length: 40 cm.	10	x36

HANDLING REQUIRING CUT AND HEAT RESISTANCE

KEVLAR®

KPG10



10 cm

Knitted Kevlar® gauge 7:

- Optimal cut performance and good resistance to heat
- Excellent balance between heat resistance and dexterity

Ambidextrous
Washable

10-cm knitted wrist :

- Better vein protection



Article	Ref./Colours	Standard		Description	Sizes	
KPG10	KPG10 Yellow	CE	EN388 2, 5, 4, X	EN407 4, 2, X, X, X, X Kevlar® Technology outside. 100% cotton lining Gauge 7.	9	x36

KCA15



15 cm

Heat-resistant leather (HR) :

- Better resistance to contact heat
- Reduction of the reactivity on contact with flame
- Flexible leather

Knitted Kevlar® gauge 7:

- Optimal cut performance and good resistance to heat
- Excellent balance between heat resistance and dexterity



Article	Ref./Colours	Standard		Description	Sizes	
KCA15	KCA15 Yellow-Orange	CE	EN388 2, 5, 4, X	EN407 4, 2, X, X, X, X Kevlar® Technology outside. 100% cotton inside. 15 cm heat-resistant split leather cuff (THT). Gauge 7.	9	x36

GFK58H



Heat resistant 350°C :
 • Kevlar® seams
 • 15-cm heat resistant split cuff

Heat-resistant leather (HR) :
 • Better resistance to contact heat
 • Reduction of the reactivity on contact with flame
 • Flexible leather



TERRYCLOTH

RESISTANCE

- Heat protection
- Thermal insulation in dry or light wet environments

ADVANTAGE

- Comfortable
- Good dexterity

Article	Ref./Colours	Standard		Description	Sizes	
GFK58H	GFK58H Yellow-Orange	CE	EN388 2, 5, 4, 2	EN407 4, 3, 4, 2, X, X Para-aramid fibre terrycloth outside. Wool lining. 15-cm heat-resistant split leather cuff (THT).	10	x36

SMALL HANDLING

Article	Ref./Colours	Standard	Description	Sizes	
ACRYLIC					
TAE10		TAE10 Blue	CE Acrylic / Elasthane support Gauge 10.     	07 / 09	x300
POLYAMIDE					
PM159		PM159 White	CE  EN388 2, 1, 4, X 100% foam polyamid. 6-cm long knit wrist. Gauge 13. Ambidextrous.   	07 / 09	x300
PM160		PM160 White	CE  EN388 2, 1, 4, X 100% foam polyamid. 6-cm long knitted wrist. PVC dots on palm. Gauge 13.   	07 / 09	x300
COTTON					
TP169		TP169 White	CE  EN388 2, 1, 3, 1 65% polyester 35% cotton. PVC dots on palm. Gauge 7.  	07 / 09	x300



Article	Ref./Colours	Standard	Description	Sizes	
TERRY CLOTH					
BOL49		BOL49 Ecreu	<p>CE</p> <p>EN388 1, 2, 3, 1</p> <p>EN407 X, 2, X, X, X, X</p> <p>EN511 1, 1, X</p> <p> </p>	100% cotton terrycloth. 660 g/m ² . Cut sewn. Gauge 8.	10 x120
COTTON					
CP149		CP149 Beige	<p>CE</p> <p> </p>	Brushed drill cotton lining 270 g/m ² . French assembly. PVC dots on palm and full thumb, index and little finger.	08 / 10 x300
TT460		TT460 Ecreu	<p>CE</p> <p> </p>	100% cotton 460 g/m ² . Seamless. Gauge 10. Ambidextrous.	07 / 09 x300
C0131		C0131 Ecreu	<p>CE</p> <p> </p>	Interlock cotton 155 g/m ² . Knitted wrist. Gauge 18. Ambidextrous.	07 / 09 x600
COB40		COB40 White	<p>CE</p> <p> </p>	Bleached cotton 180 g/m ² . Fourchette assembly.	06 / 07 / 08 / 09 x600



DISPOSABLE WEAR



HELP WITH CHOICE

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DISPOSABLE WEAR

TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

AGRICULTURE/ GREEN AREAS								
CONSTRUCTION CIVIL ENGINEERING								
SECOND WORK CRAFTSMAN								
HEAVY INDUSTRY								
LIGHT INDUSTRY								
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MATERIALS

What material to choose?

► POLYETHYLENE (PE)

Is a flexible plastic fibre which provides good chemical resistances.

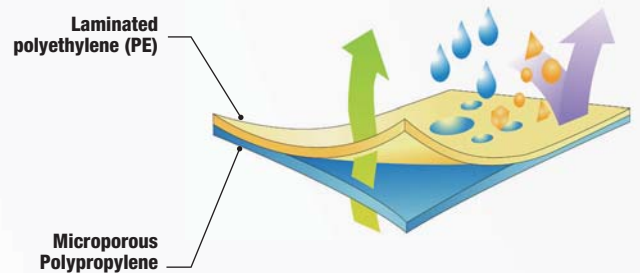
► POLYPROPYLENE (PP)

Is a nonwoven breathable fibre which provides excellent comfort.

► LAMINATED WOVEN MICROPOROUS MATERIAL - DT1xx

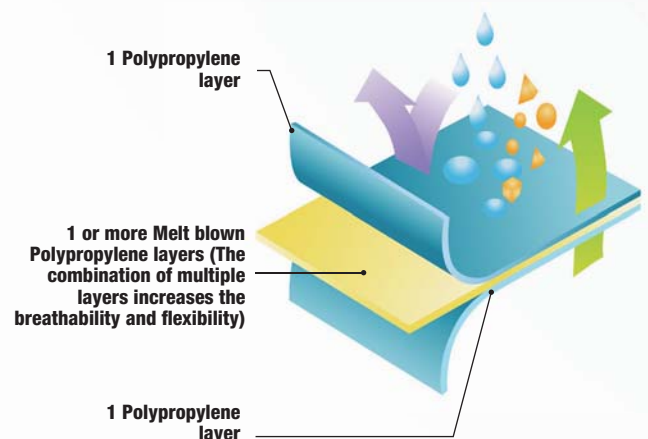
The combination of a polypropylene layer and a Polyethylene layer (PE) ensures outstanding properties and excellent protection against most chemical products and particles. The fabric is very resistant and lint free.

► SMS (SPUN BOUND, MELT BLOWN, SPUN BOUND)



POLYPROPYLENE – NON WOVEN POLYPROPYLENE, MELT BLOWN, NON WOVEN) - DT2xx

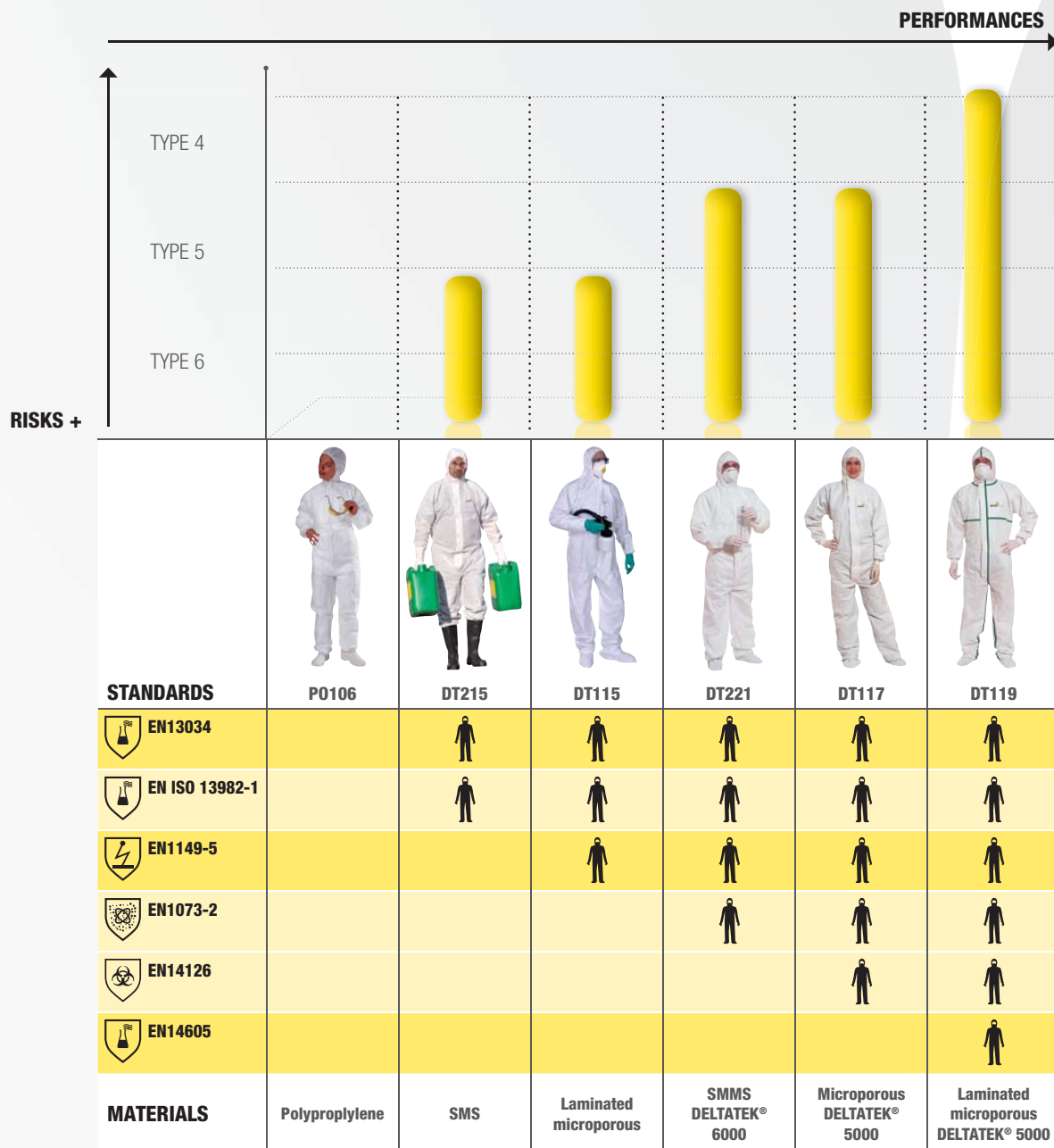
The combination of the three polypropylene layers provides exceptional protection and provides a breathable fabric. The melt blown is incorporated with warm air to form a chemical barrier. The other two layers make the combination flexible and breathable.





PERFORMANCES

What performance to choose according to your needs ?



CHEMICAL PROTECTION

DELTATEK® 5000

DT119



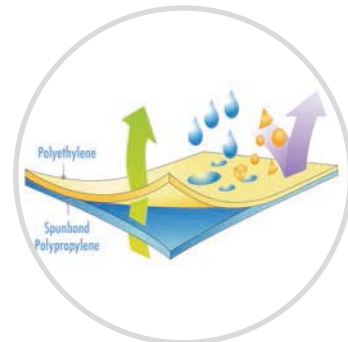
Deltatek 5000



Sealed seams
Lint free
Extra soft
Silicone free
Decontamination



DELTATEK® 5000
70 % polypropylene
30 % polyethylene
• The polyethylene film ensures greater resistance to chemical hazards and higher mechanical resistance (abrasion – tearing).



Article	Ref./Colours	Standard		Description	Sizes	
DT119	DT119 White	CE	EN14605 TYPE 4-B	EN14126 EN1073-2 CLASS 2 EN1149-5	Overall with elasticated hood. Non-woven Deltatek® 5000. Fastening with zip under flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Individual airtight pack.	M/L/XL/XXL x20
			EN ISO 13982-1 TYPE 5-B			
			EN13034 TYPE 6-B			

DT117

***Deltatek 5000.***

Lint free
Extra soft
Silicone free



Zip with self adhesive flap
DT117 - DT119 - DT221



Elasticated cuffs
DT117 - DT119 - DT221



Elasticated ankles
DT117 - DT119 - DT221



Article	Ref./Colours	Standard		Description	Sizes	
DT117	DT117 White	CE	EN ISO 13982-1 TYPE 5-B	EN14126 EN1073-2 CLASS 1 EN1149-5	Overall with elasticated hood. Non-woven Deltatek® 5000. Fastening with zip under flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Individual airtight pack.	M/L/XL/XXL x20
			EN13034 TYPE 6-B			

CHEMICAL PROTECTION

DELTATEK® 6000

DT221



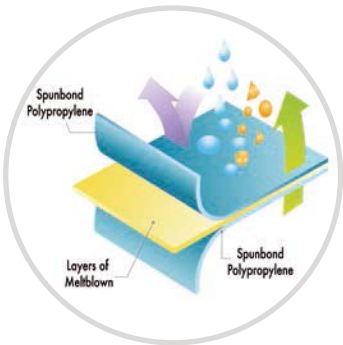
Deltatek 6000.







Breathable



100 % polypropylene SMMS* 60 g.
* Non woven Spunbond (x1), Melt Blown (x2), Spunbond (x1)
• The SMMS* process allows good product breathability



Article	Ref./Colours	Standard		Description	Sizes	
DT221	DT221 White	CE	 EN ISO 13982-1 TYPE 5  EN13034 TYPE 6	 EN1073-2 CLASS 1  EN1149-5	Overall with elasticated hood. Non-woven Deltatek® 6000. Fastening with zip under flap (top and bottom opening). Elasticated round head, waist and ankles. Knitted wrist. Individual airtight pack.	M/L/XL/XXL x20

DT115



ESSENTIAL version
Microporous laminated

Antistatic



Article	Ref./Colours	Standard		Description	Sizes	
DT115	DT115 White	CE	EN ISO 13982-1 TYPE 5 EN13034 TYPE 6	EN1149-5 Overall with elasticated hood. Non-woven 70% polypropylene / 30% polyethylene. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	M/L/XL/XXL	x50

DT215














ESSENTIAL version
SMS

Breathable
Comfortable













Article	Ref./Colours	Standard		Description	Sizes	
DT215	DT215 White	CE	EN ISO 13982-1 TYPE 5 EN13034 TYPE 6	EN13034 TYPE 6 Overall with elasticated hood. Non-woven 100% polypropylene SMS. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	M/L/XL/XXL	x50

Article	Ref./Colours	Description	Sizes	
P0106 	P0106BC White	Overall with elasticated hood. Non-woven polypropylene 40 g/m ² . Zip fastening. Elasticated waist, ankles and cuffs. Individual pack. 	M/L/XL/XXL	x50
P0109 	P0109 Blue	Overall with elasticated hood. Non-woven polypropylene 45 g/m ² . Zip fastening. Elasticated cuffs. 	L/XL/XXL	x50
BLOUSPE 	BLOUSPE White	Coat for visitors. Polyethylene. Fastening with 3 press studs. Shirt collar. Raglan sleeves. Dispenser box of 100 pieces. 	ONE SIZE	x5
BLOUSPO 	BLOUSPO White	Coat. Non-woven polypropylene. Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. 	M/L/XL	x50
TABP002 	TABP002 White	Apron. Polyethylene 20 µ. Dimensions: 120 x 70 cm. Bag of 100 pieces. 	ONE SIZE	x10
TABP004	TABP004 White	Apron. Polyethylene 40 µ. Dimensions: 120 x 70 cm. Bag of 50 pieces. 		

Article	Ref./Colours	Description	Sizes	
P0111 	P0111 White	Accordion pleating mobcap. Non-woven polypropylene 15 g/m ² . Elasticated border. Dispenser box of 100 pieces. 	ONE SIZE	x10
	P0111BL Blue			
P0110 	P0110 White	Round mobcap. Non-woven polypropylene 14 g/m ² . Elasticated border. 53 cm in diameter. Dispenser box of 100 pieces. 	ONE SIZE	x10
	P0110BL Blue			
P0112 	P0112 White	Mobcap with peak. Non-woven polypropylene 16 g/m ² . Box of 100 pieces. 	ONE SIZE	x10
	P0112BL Blue			
PA200 	PA200 White	Adjustable cap. Top ventilated paper. Adjustable head size. Dispenser box of 100 pieces. 	ONE SIZE	x10
TOQUE 	TOQUE White	Adjustable pleated hat. Extra-white crepe paper. Height: 25 cm. Bag of 10 pieces. 	ONE SIZE	x25
P0115 	P0115 White	Chin/beard protector. Non-woven polypropylene 15 g/m ² . Elasticated for a good fit. Dispenser box of 100 pieces.	ONE SIZE	x10



Article	Ref./Colours	Description	Sizes	
MASQU 	MASQU White	Hygiene masks. Non-woven polypropylene. Elasticated straps and nose clip. Box of 50 masks. 	ONE SIZE	x20
MASQU2 	MASQU2 White	2-pleats hygiene masks. Double thickness paper. Rubber band. Box of 100 masks. 	ONE SIZE	x100
MASQUV 	MASQUV Green	Hygiene mask, medical type, 3 pleats. Double thickness paper. Tie and nose clip. Box of 50 masks. 	ONE SIZE	x20
	MASQUG Green			x40
MASQUG 				
MANCHBL 	MANCHBL White	Sleeve. Polyethylene 21 µ. Elasticated on both ends. Dimensions: 40 x 20 cm. Bag of 100 pieces. 	ONE SIZE	x20
MANCHBE 	MANCHBE Blue	Sleeve. Polyethylene 21 µ. Elasticated on both ends. Dimensions: 40 x 20 cm. Bag of 100 pieces. 	ONE SIZE	x20

Article	Ref./Colours	Description	Sizes	
DT111 	DT111 White	Overboots. Non-woven Deltatek® 5000. 70% polypropylene 30% polyethylene. Elastic and tie on top. Bag of 10 pairs.   	ONE SIZE	x5
SURCHPLUS 	SURCHPLUS Blue-White	Overshoes. Non-woven polypropylene. Waterproof plasticized sole. Elasticated ankle. Bag of 50 pairs.   	ONE SIZE	x5
SURCHPE 	SURCHPE Blue	Visitor overshoes. Polyethylene 30 µ. Elasticated ankle. Box of 50 pairs.   	ONE SIZE	x20
SURCHPO 	SURCHPO White	Overshoes. Non-woven polypropylene 40 g/m². Elasticated ankle. Dimensions: 35 x 17 cm. Bag of 50 pairs.   	ONE SIZE	x10
D0100 	D0100 White	Piping bag. Transparent polyethylene. Thickness: 80 microns. Dimension: 52 x 27 cm. Capacity: +/- 2 litres. Dispenser box of 100 pieces. 		x10
KITVI 	KITVI	Kit for visitor: 1 polyethylene overall Ref. BLOUSPE). 1 accordion pleating mobcap (Ref. P0111). 1 two-pleats paper mask (Ref. MASQU2). 1 polyethylene pair of overshoes (Ref. SURCHPE). Box of 100 kits. 		x4





WORK WEAR



HELP WITH CHOICE

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TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
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	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
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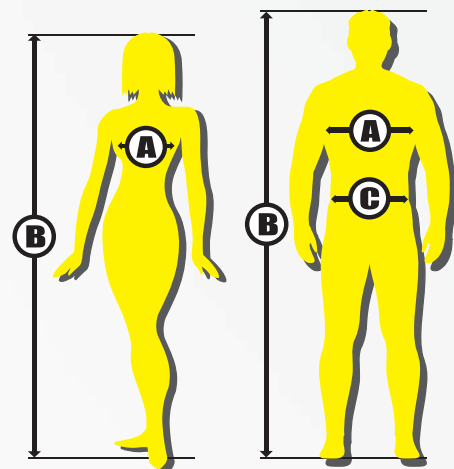
SIZES

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 measures outlined in the tables are **body ones**.
- For wearing a garment over another, **the width required is provided**.



A	B	C
Chest measurement	Height	Waist measurement

SIZE EQUIVALENCE TABLE

MALE	XS	S	M	L	XL	XXL	3XL
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
JACKET / BOMBER BODYWARMER / OVERALL Chest measurement (A)	EU	42/44	44/46	48/50	52/54	56/58	60/62	64/66
	IT/DE	46/48	48/50	52/54	56/58	60/62	64/66	68/70
	cm	78/86	86/94	94/102	102/110	110/118	118/129	129/141
	inch	32 ^{1/2} /34	34/37	37/40	40/43	43/46 ^{1/2}	46 ^{1/2} /50 ^{1/2}	50 ^{1/2} /55 ^{1/2}
TROUSERS / DUNGAREES Waist measurement (C)	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
	inch	23/26	26/29	29/32	32/35 ^{1/2}	35 ^{1/2} /38 ^{1/2}	38 ^{1/2} /41 ^{1/2}	41 ^{1/2} /46
TEE-SHIRT (A)	cm	76/79	80/88	89/97	98/106	107/115	116/124	125/133

FEMALE	B	156/164	164/172	172/180	180/188	188/196
JACKET / SMOCK BODYWARMER Chest measurement (A)	EU	36/38	38/40	42/44	46/48	50/52
	UK	8/10	10/12	14/16	18/20	22/24
	IT/DE	40/42	42/44	46/48	50/52	54/56
	cm	82/86	86/94	94/102	102/113	113/125
TROUSERS Waist measurement (C)	EU	/	38/40	42/44	46/48	50/52
	IT/DE	/	42/44	46/48	50/52	54/56
	cm	/	70/78	78/86	86/97	97/102
	inch	/	27 ^{1/2} /31	31/34	34/38	38/40



MACH ORIGINALS

MOVES



Padded and reinforced
shoulders and elbows



Gusset at the back



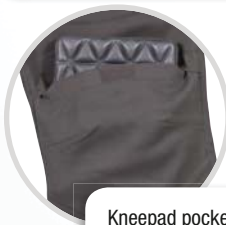
FLEXIBLE FABRIC :
improved movement
MOVES - MOPAN

Article	Ref./Colours		Material	Description	Sizes	
MOVES	MOVESNO Black	CE	Twill 97% cotton 3% elasthane 290 g/m².	Jacket. Fastening with zip under press stud storm flap. Adjustable cuffs with press stud flap. Adjustable bottom of garment with press stud flap. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	MOVESGR Grey					

MOPAN



Inside adjustable waist with elastic
and buttons




Kneepad pockets with
reinforced knees



Easy adjustment of length
with special hem

Article	Ref./Colours		Material	Description	Sizes	
MOPAN	MOPANNO Black	CE	Twill 97% cotton 3% elasthane 290 g/m².	Trousers. 8 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10
	MOPANGR Grey					

A full-page photograph of a male worker in a brown protective suit, helmet, and gloves, working on a cable rack. He is using a screwdriver. The rack is filled with various cables. On the left side of the image, there are five circular callouts with text. On the right side, there is a small icon of a pair of overalls.

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DIAMOND V**
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FUJ12 CLEAR
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HESTIA
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MOPAN
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MACH SPIRIT



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PACAYA CLEAR
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M5COM

M5SAL

M5PAN

M5VES

M5GIL



M5COM

M5SAL

M5PAN

M5VES

M5GIL



KARIS

M5POL

M5PAR

M5GIW



KARIS

M5POL

M5PAR

M5GIW



WINTER



MACH SPIRIT

M5COM



Set of 2 removable pockets
with buttons
2 places on the waist
M5COM - M5PAN - M5SAL



Pockets for ruler and tools
M5COM - M5PAN - M5SAL



Reinforced yokes for dirt
resistance
M5COM - M5PAN - M5SAL -
M5VES - M5GIL



Kneepad pockets
M5COM - M5PAN - M5SAL



Pocket for tools
M5COM - M5PAN - M5SAL

Article	Ref./Colours	Material	Description	Sizes	
M5COM	M5COMGN Grey-Black	CE Canvas 60% cotton 40% polyester 270 g/m ² . Yokes : Canvas 55% polyester 32% cotton 13% elastane 310 g/m ² .	Overalls. Zip fastening under bias. Elasticated waist at the back. Underarm ventilation eyelets. Preformed elbows and knees. 8 pockets including 1 ruler + 2 removable pockets.	S/M/L/XL/ XXL/3XL	x10
	M5COMBN Beige-Black				



M5VES



Article	Ref./Colours		Material	Description	Sizes	
M5VES	M5VESGN Grey-Black	CE	Canvas 60% cotton 40% polyester 270 g/m ² . Yokes : Canvas 55% polyester 32% cotton 13% elastane 310 g/m ² .	Jacket. Zip fastening under bias. Elasticated waist on both sides with press studs tab. Preformed elbows. Underarm ventilation eyelets. 5 pockets including 1 on the sleeve.	S/M/L/XL/ XXL/3XL	x10
	M5VESBN Beige-Black					

M5PAN



Article	Ref./Colours		Material	Description	Sizes	
M5PAN	M5PANGN Grey-Black	CE	Canvas 60% cotton 40% polyester 270 g/m ² . Yokes : Canvas 55% polyester 32% cotton 13% elastane 310 g/m ² .	Trousers. Elasticated waist on both sides. Preformed knees. 7 pockets including 1 ruler + 2 removable pockets.	S/M/L/XL/ XXL/3XL	x10
	M5PANBN Beige-Black					



MACH SPIRIT

M5GIL



Multipockets



Article	Ref./Colours		Material	Description	Sizes	
M5GIL	M5GILGN Grey-Black	CE	Canvas 60% cotton 40% polyester 270 g/m ² . Yokes : Canvas 55% polyester 32% cotton 13% elastane 310 g/m ² .	Vest. Zip fastening under bias. Adjustable bottom with elastic drawstring. 6 pockets.	S/M/L/XL/ XXL/3XL	x10
	M5GILBN Beige-Black					

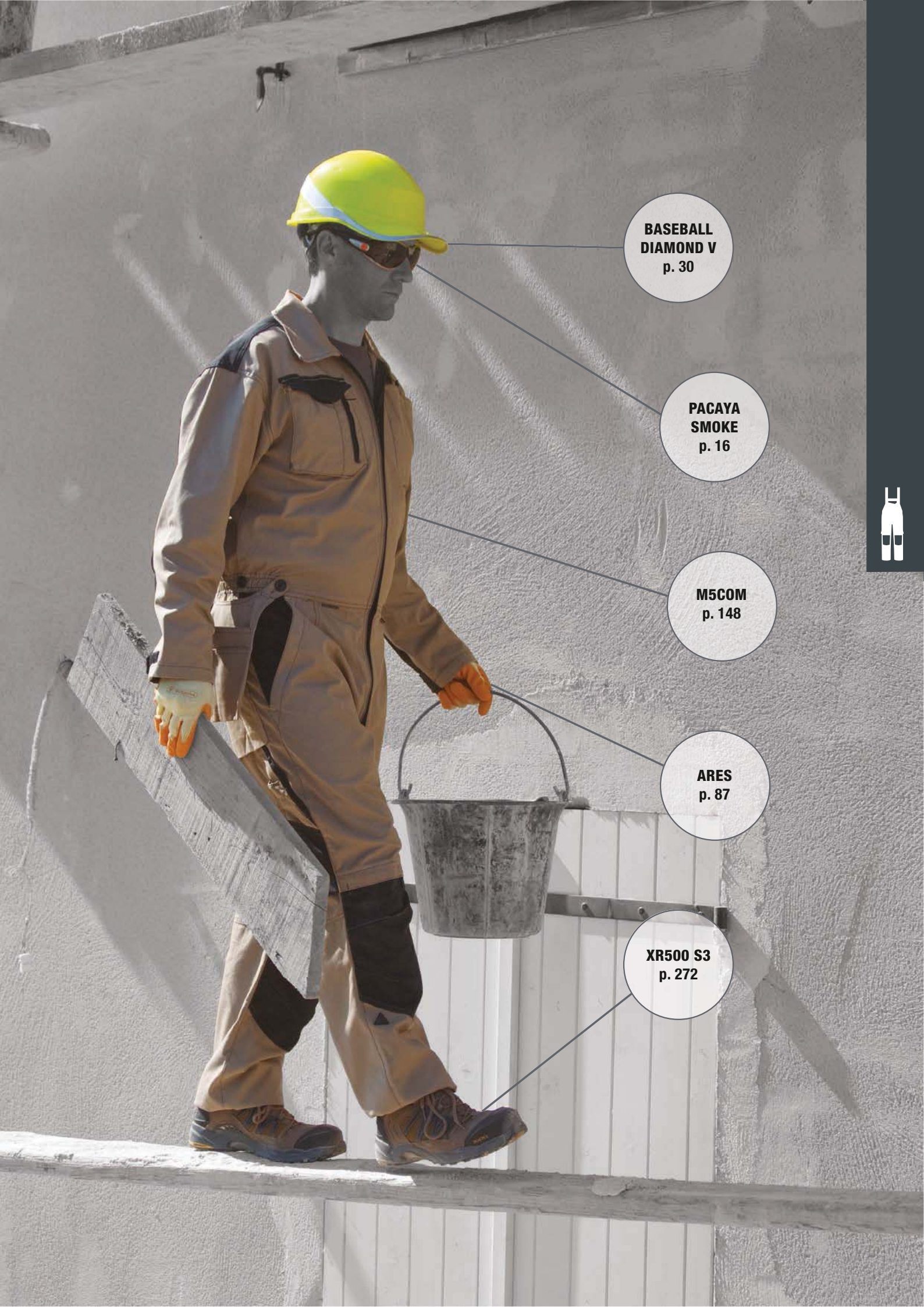
M5SAL



Inside adjustable waist with elastic and buttons



Article	Ref./Colours		Material	Description	Sizes	
M5SAL	M5SALGN Grey-Black	CE	Canvas 60% cotton 40% polyester 270 g/m ² . Yokes : Canvas 55% polyester 32% cotton 13% elastane 310 g/m ² .	Dungarees. Adjustable elasticated braces. Preformed knees. 8 pockets including 1 ruler + 2 removable pockets.	S/M/L/XL/ XXL/3XL	x10
	M5SALBN Beige-Black					



**BASEBALL
DIAMOND V**
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**PACAYA
SMOKE**
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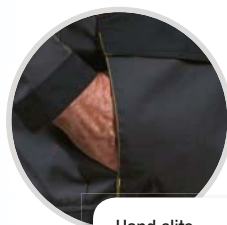


D-MACH

DMVES



Internal pocket



Hand slits



Reinforced wrists for dirt resistance

Article	Ref./Colours	Material	Description	Sizes	
DMVES	DMVESGJ Grey-Yellow	CE Twill 65% polyester 35% cotton 245 g/m².	Jacket. Cuffs with press studs fastening. 4 pockets.	S/M/L/XL/ XXL/3XL	x10

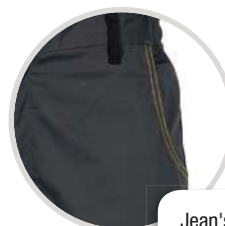
DMPAN



Kneepad pockets



Bottom of trousers with reinforcement to avoid dirt



Jean's pocket

Article	Ref./Colours	Material	Description	Sizes	
DMPAN	DMPANGJ Grey-Yellow	CE Twill 65% polyester 35% cotton 245 g/m².	Trousers. Elasticated waist on both sides. 6 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10



DMVES
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GRANITE WIND
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DMPAN
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MACH 2 CORPORATE



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p. 39

**VULCANO2
CLEAR**
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NEPTUNE
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MCCOM
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XR300 S1P
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MCCOM

MCCDZ

MCSAL

MCPAN

MCVES

MCCHE



MCCOM

MCCDZ

MCSAL

MCPAN

MCVES

MCCHE



MCCOM

MCCDZ

MCSAL

MCPAN

MCVES

MCCHE



MCGIW

MCGIW

MCGIW



WINTER

MACH 2 CORPORATE

MCCOM



Underarm ventilation with eyelets
Gusset at the back
MCVES - MCCDZ - MCCOM



Hole for audio wire
MCVES - MCCHE - MCCOM



Badge holder
MCVES - MCSAL - MCCOM



Hand slits



Kneepad pockets
MCPAN - MCSAL - MCCOM - MCCDZ



Pockets for ruler and tools
MCVES - MCSAL - MCCOM - MCCDZ

Article	Ref./Colours		Material	Description	Sizes	
MCCOM	MCCOMGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 245 g/m².	Overalls. Elasticated waist at the back. 8 pockets including 1 ruler. 2 Hand slits.	S/M/L/XL/ XXL/3XL	x10
	MCCOMBE Beige-Dark grey					
	MCCOMBM Navy blue-Black					



MCVES



Multi pockets



Article	Ref./Colours		Material	Description	Sizes	
MCVES	MCVESGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Jacket Adjustable bottom of garment with press stud flap. 6 pockets.	S/M/L/XL/ XXL/3XL	x10
	MCVESBE Beige-Dark grey					
	MCVESBM					
	Navy blue-Black					

MCPAN



Buttock reinforcement
MCPAN - MCSAL - MCCOM



Article	Ref./Colours		Material	Description	Sizes	
MCPAN	MCPANGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Trousers. Elasticated waist on both sides. Preformed knees. 9 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10
	MCPANBE Beige-Dark grey					
	MCPANBM					
	Navy blue-Black					



MACH 2 CORPORATE

MCCDZ



Adjustable waist with velcro band
Hand slits

Preformed and reinforced elbows

Zip in bias for ergonomics



Article	Ref./Colours		Material	Description	Sizes	
MCCDZ	MCCDZGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 245 g/m².	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.	S/M/L/XL/ XXL/3XL	x10
	MCCDZBE Beige-Dark grey					
	MCCDZBM Navy blue-Black					



MCCHE



Sleeves can be lifted up with tabs and buttons



Key ring



Article	Ref./Colours		Material	Description	Sizes	
MCCHE	MCCHEGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 200 g/m ² .	Shirt with long sleeves. Fastening with zip under velcro flap. 3 pockets.	S/M/L/XL/ XXL/3XL	x10
	MCCHEBE Beige-Dark grey					
	MCCHEBM Navy blue-Black					

MCSAL



Waist fastened with buttons



Article	Ref./Colours		Material	Description	Sizes	
MCSAL	MCSALGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Dungarees. Adjustable elasticated braces. 10 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10
	MCSALBE Beige-Dark grey					
	MCSALBM Navy blue-Black					



MACH 2

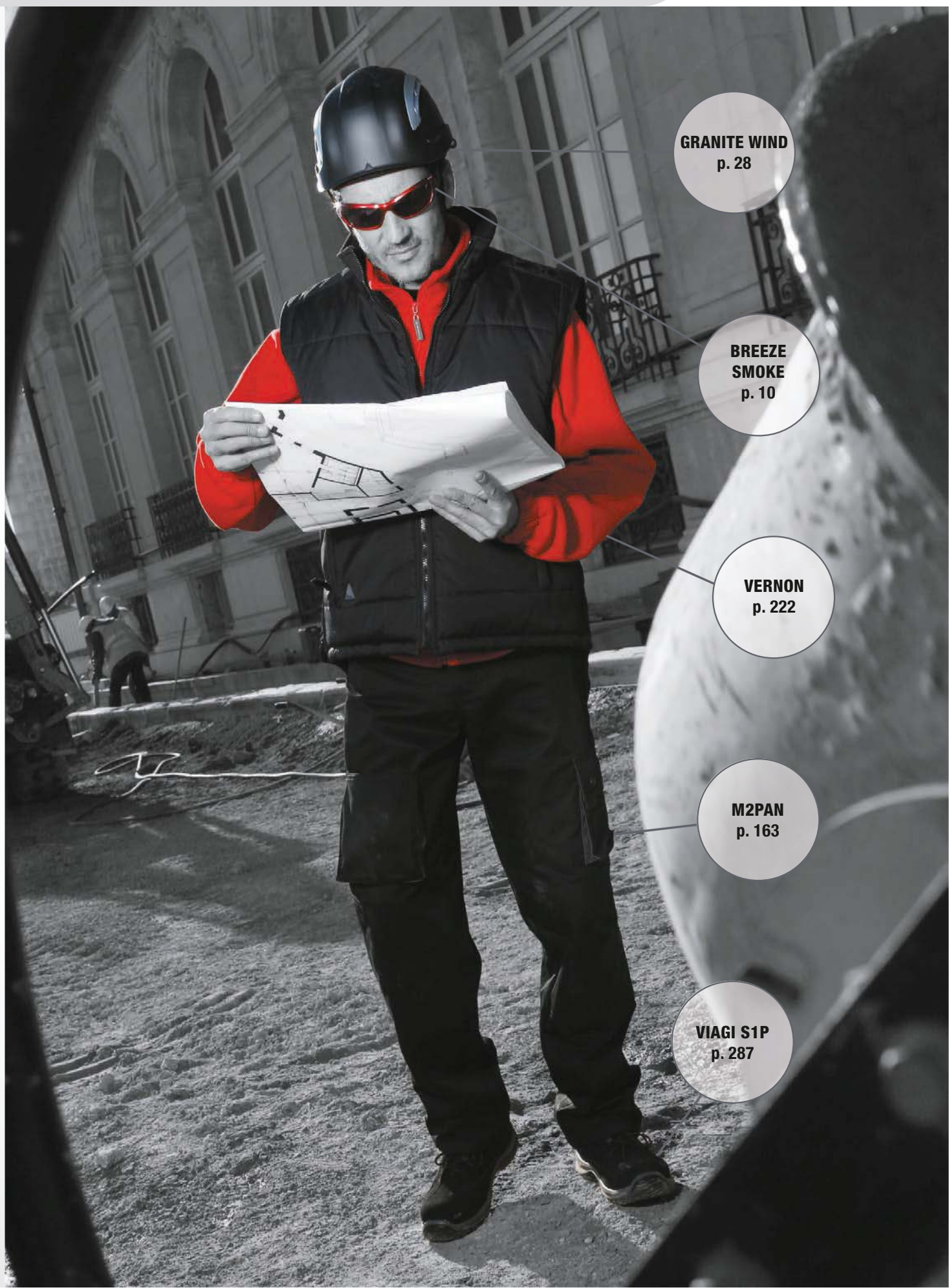
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**BREEZE
SMOKE**
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M2COM M2SAL M2PAN M2VES



M2CDZ M2COM M2SAL M2PAN M2VES M2GIL M2BER



M2CDZ M2COM M2SAL M2PAN M2VES M2GIL M2BER



NORTHWOOD

STOCKTON

M2PAW



NORTHWOOD

STOCKTON

M2PAW



NORTHWOOD

STOCKTON



WINTER

MACH 2

M2CDZ



Badge holder
M2VES - M2COM - M2CDZ



Article	Ref./Colours		Material	Description	Sizes	
M2CDZ	M2CDZGR Grey-Orange		Twill 65% polyester 35% cotton 245 g/m².	Overalls with 2 zips. Elasticated waist. Cuffs with press stud fastening. 10 pockets including 1 on the sleeve and 1 ruler.	S/M/L/XL/ XXL/3XL	x10
	M2CDZBM Navy blue-Royal blue					



M2VES



Article	Ref./Colours		Material	Description	Sizes	
M2VES	M2VESGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Jacket. Raglan sleeves. Cuffs with press stud fastening. 4 pockets including 1 on the sleeve.	S/M/L/XL/ XXL/3XL	x10
	M2VESBM Navy blue-Royal blue					
	M2VESNO Black-Grey					

M2PAN



Kneepad pockets
M2PAN - M2SAL - M2COM



Article	Ref./Colours		Material	Description	Sizes	
M2PAN	M2PANGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Trousers. Elasticated waist on both sides. 7 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10
	M2PANBM Navy blue-Royal blue					
	M2PANNO Black-Grey					



MACH 2

M2GIL



Large rear pocket



Article	Ref./Colours		Material	Description	Sizes	
M2GIL	M2GILGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m².	Multipocket vest. Bias finishing. 13 pockets.	S/M/L/XL/ XXL/3XL	x10
	M2GILBM Navy blue-Royal blue					

M2COM



Badge holder
M2VES - M2COM - M2CDZ



Article	Ref./Colours		Material	Description	Sizes	
M2COM	M2COMGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m².	Overalls. Zip fastening under bias. Elasticated waist. Cuffs with press stud fastening. 9 pockets including 1 on the sleeve.	S/M/L/XL/ XXL/3XL	x10
	M2COMBM Navy blue-Royal blue					
	M2COMNO Black-Grey					



M2BER



Article	Ref./Colours		Material	Description	Sizes	
M2BER	M2BERGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Bermuda. Elasticated waist on both sides. 7 pockets including 1 ruler.	S/M/L/XL/XXL	x10
	M2BERBM Navy blue-Royal blue					

M2SAL



Kneepad pockets
M2PAN - M2SAL - M2COM



Article	Ref./Colours		Material	Description	Sizes	
M2SAL	M2SALGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m ² .	Dungarees. Adjustable elasticated braces. 8 pockets including 1 ruler.	S/M/L/XL/XXL/3XL	x10
	M2SALBM Navy blue-Royal blue					
	M2SALNO Black-Grey					





BALI
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M6VES
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HESTIA
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M6PAN
p. 169

VIAGI S1P
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**M6COM****M6SAL****M6PAN****M6VES****M6GIL****M6BER****M6COM****M6SAL****M6PAN****M6VES****M6GIL****M6BER****M6COM****M6SAL****M6PAN****M6VES****M6GIL****M6COM****M6SAL****M6PAN****M6VES****M6GIL**

PANOSTYLE

M6COM



Badge holder
Badge holder sold separately
M6VES - M6COM

Contrasting colours
M6VES - M6PAN - M6SAL -
M6GIL - M6COM

Internal kneepad pockets
M6PAN - M6SAL - M6COM

Article	Ref./Colours	Material	Description	Sizes	
M6COM	M6COMBM Navy blue-Orange	CE Twill 65% polyester 35% cotton 235 g/m ² .	Overalls. Front zip fastening with bias finishing. Elasticated waist. Elasticated cuffs. 7 pockets.	XS/S/M/L/XL/ XXL/3XL	x10
	M6COMGR Grey-Green				
	M6COMMA Brown-Green				
	M6COMGO Grey-Orange				



M6VES



Article	Ref./Colours		Material	Description	Sizes	
M6VES	M6VESBM Navy blue-Orange	CE	Twill 65% polyester 35% cotton 235 g/m ² .	Jacket. Front zip fastening with bias finishing. Elasticated cuffs. 4 pockets.	XS/S/M/L/XL/ XXL/3XL	x10
	M6VESGR Grey-Green					
	M6VESMA Brown-Green					
	M6VESGO Grey-Orange					

M6PAN



Article	Ref./Colours		Material	Description	Sizes	
M6PAN	M6PANBM Navy blue-Orange	CE	Twill 65% polyester 35% cotton 235 g/m ² .	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.	XS/S/M/L/XL/ XXL/3XL	x10
	M6PANGR Grey-Green					
	M6PANMA Brown-Green					
	M6PANGO Grey-Orange					



PANOSTYLE

M6SAL



Waist fastened with buttons

Article	Ref./Colours	Material	Description	Sizes	
M6SAL	M6SALBM Navy blue-Orange	CE Twill 65% polyester 35% cotton 235 g/m².	Dungarees. Elasticated waist on both sides. Adjustable elasticated braces. 6 pockets.	XS/S/M/L/XL/ XXL/3XL	x10
	M6SALGR Grey-Green				
	M6SALMA Brown-Green				
	M6SALGO Grey-Orange				



M6GIL



Article	Ref./Colours		Material	Description	Sizes	
M6GIL	M6GILBM Navy blue-Orange	CE	Twill 65% polyester 35% cotton 235 g/m ² .	Multipocket vest. Front zip fastening with bias finishing. Bias finishing. 6 pockets.	XS/S/M/L/XL/ XXL/3XL	x10
	M6GILGR Grey-Green					
	M6GILMA Brown-Green					
	M6GILGO Grey-Orange					

M6BER



Article	Ref./Colours		Material	Description	Sizes	
M6BER	M6BERBM Navy blue-Orange	CE	Twill 65% cotton 35% polyester 235 g/m ² .	Bermuda. Elasticated waist on both sides. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	M6BERGR Grey-Green					



MACH SPRING

MSGIL



Multipockets



MSBER



Inside adjustable waist with elastic and buttons



Article	Ref./Colours	Material	Description	Sizes	
MSGIL	MSGILBE Beige	Twill 65% polyester 35% cotton 245 g/m ² . Polyester mesh lining.	Stonewashed multipocket vest. Bias finishing. 13 pockets.	S/M/L/XL/ XXL/3XL	x10
MSBER	MSBERVE Camouflage	Twill 65% polyester 35% cotton 190 g/m ² .	Stone washed bermuda. 7 pockets including 1 ruler.		

MSPAN



Inside adjustable waist with elastic and buttons



Kneepad pockets



Convertible legs with zip (3 lengths)



Article	Ref./Colours	Material	Description	Sizes	
MSPAN	MSPANBE Beige	Twill 65% polyester 35% cotton 245 g/m ² .	3 in 1 stonewashed trousers. 7 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10



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PACAYA SMOKE
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M5POL
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MSGIL
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MSPAN
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EXTRAS

M2LGI



Large rear pocket

JEAND



Article	Ref./Colours	Material	Description	Sizes	
M2LGI	M2LGIBE Beige-Green	CE Twill 65% polyester 35% cotton 200 g/m ² .	Multipocket vest. 13 pockets.	S/M/L/XL/ XXL/3XL	x10
JEAND	JEAND Blue	Twill 100% cotton 14 oz.	Denim jeans. Fly with buttons under flap. Inside leg length: 85 cm approximately. Bottom width : 20 cm. 5 pockets.	38 to 54	

VERONA



BADGE



Article	Ref./Colours	Material	Description	Sizes	
VERONA	VERONRO Red-Grey	Twill 65% polyester 35% cotton 245 g/m ² .	Cap (To match the MACH range).	ONE SIZE	x10
	VERONBL Navy blue-Royal blue				
	VERONGR Grey-Orange				
	VERONNO Black-Grey				
BADGE	BADGE		Removable badge holder suitable for all products with badge holder text. Outside dimensions : width 10,5 cm x height 9,5 cm.		



ZIMA



M2GEN



Article	Ref./Colours	Standard	Material	Description	Sizes	
ZIMA	ZIMANO Black	CE EN14404 TYPE 1 LEVEL 1	PVC-coated 100% polyester. 100% polyester lining. PVC shelve.	Gel kneepad with outside anti slip shell. Elastic velcro band to maintain the knee. Adjustable strips in elastic velcro.	ONE SIZE	x10
M2GEN	M2GEN		Polyethylene foam.	Kneepads 20 x 15 cm for trousers, dungarees and overalls of the MACH, PANOSTYLE and PAINTER ranges (not M2CDZ).		

ATOLL



CEINT04



Article	Ref./Colours	Material	Description	Sizes	
ATOLL	ATOLLGR Grey	100% polyester.	Belt.	ONE SIZE	x100
CEINT04	CEINT04 Black	Canvas polyester elastane. Stiffeners in polypropylene.	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».	M/L/XL	x48

LEISURE

BALI



Quick dry treatment
Comfortable
Very light weight



Article	Ref./Colours	Material	Description	Sizes	
BALI	BALVG Green-Grey	100% polyester 160 g/m ² . Dry fit treatment.	Two-coloured tee-shirt with short sleeves. Round collar.	M/L/XL/ XXL/3XL	x10
	BALIGM Grey-Navy blue				
	BALINJ Black-Yellow				
	BALIOM Orange-Navy blue				
	BALIRG Red-Grey				

SAFE SOPHORA 301



Recyclable packaging (without
PVC)

Jersey 100% organic cotton
• Less risks of allergy
• Soft to the touch and flexible
• Pleasant to wear



Article	Ref./Colours	Material	Description	Sizes	
SAFE SOPHORA 301	SE301 Natural	Jersey 100% organic cotton	Tee-shirt with short sleeves. Round collar.	S/M/L/XL/ XXL/3XL	x12



MSPOL



MSTM5



Article	Ref./Colours	Material	Description	Sizes	
MSPOL	MSPOLOR Orange	Piqué stitch 100% cotton 210 g/m².	Polo with short sleeves (To match the MACH 2 range). Collar with zip fastening. Raglan sleeves.	M/L/XL/ XXL/3XL	x10
	MSPOLBL Royal blue				
MSTM5	MSTM5GR Grey-Black	Jersey stitch 100% cotton 180 g/m².	Two-coloured tee-shirt with short sleeves (To match the MACH SPIRIT range). Round collar.		
	MSTM5BE Beige-Black				

MSTST



NAPOLI



Article	Ref./Colours	Material	Description	Sizes	
MSTST	MSTSTGR Grey-Orange	Jersey stitch 100% cotton 180 g/m².	Two-coloured tee-shirt with short sleeves (To match the MACH 2 range). Round collar.	M/L/XL/ XXL/3XL	x10
	MSTSTBM Navy blue-Royal blue				
	MSTSTNO Black-Grey				
NAPOLI	NAPOLGR Grey	Jersey stitch 100% cotton 140 g/m².	Tee-shirt with short sleeves. Round collar.	S/M/L/XL/ XXL/3XL	
	NAPOLBC White				
	NAPOLBL Blue				



JULIA



ELSA




Article	Ref./Colours		Material	Description	Sizes	
JULIA	JULIARS Pink	CE	100% cotton canvas 180 g/m ² .	Short smock. Adjustable slimfit waist with elastic drawstring at the back. 3/4 sleeves. 3 pockets including 1 on the sleeve	38/40 to 50/52	x10
	JULIABL Blue					
ELSA	ELSABB Blue-White		REPS canvas 65% polyester 35% cotton 180 g/m ² .			

CLAUDIA



SOPHIA



Article	Ref./Colours		Material	Description	Sizes		
CLAUDIA	CLAUDBC White	CE	Twill 65% polyester 35% cotton 200 g/m².	Mid-length straight smock. 3/4 sleeves 3 pockets.	38/40 to 50/52	x10	
SOPHIA	SOPHIBL Blue		100% cotton canvas 180 g/m².	Trousers. Adjustable elasticated waist with drawstring. 5 pockets including 1 ruler.			
	SOPHIBC White						



EMMA



Removable 2nd collar with buttons
JULIA - ELSA - EMMA - LAETITIA



Article	Ref./Colours		Material	Description	Sizes	
EMMA	EMMABC White	CE	100% cotton canvas 180 g/m ² .	Short smock. Adjustable slimfit waist with elastic drawstring at the back. Long sleeves. 3 pockets including 1 on the sleeve	38/40 to 50/52	x10

LAETITIA



SACHA



Zip gussets on both sides



Polar fleece lining

Article	Ref./Colours		Material	Description	Sizes	
LAETITIA	LAETIVE Green	CE	Ripstop canvas 65% polyester 35% cotton 180 g/m ² .	Slimfit jacket. Long sleeves. 3 pockets including 1 on the sleeve	38/40 to 50/52	x10
	LAETIBC White					
SACHA	SACHAVE Green	CE	Ripstop canvas 65% polyester 35% cotton 180 g/m ² . Wadded polar fleece polyester lining.	Bodywarmer. 4 pockets	38/40 to 50/52	x10
	SACHABC White					



PAINTER

NAPOLI



Article	Ref./Colours	Material	Description	Sizes	
NAPOLI	NAPOLBC White	Jersey stitch 100% cotton 140 g/m ² .	Tee-shirt with short sleeves. Round collar.	S/M/L/XL/ XXL/3XL	x10

LATINA



Pockets for ruler and tools
LATINA - TERAMO



Article	Ref./Colours	Material	Description	Sizes	
LATINA	LATINBC White-Grey	CE Twill 60% cotton 40% polyester 230 g/m ² .	Trousers. Elasticated waist on both sides. Preformed knees. 5 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10



TERAMO



Inside adjustable waist with elastic and buttons



Pockets for tools
LATINA - TERAMO



Kneepad pockets
LATINA - TERAMO



Article	Ref./Colours	Material	Description	Sizes	
TERAMO	TERAMBC White-Grey	CE Twill 60% cotton 40% polyester 230 g/m ² .	Dungarees. Adjustable elasticated braces. Preformed knees. 6 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10

HIGH VISIBILITY

MHVES



3M Scotchlite™
Reflective Material

Yokes for dirt resistance
MHVES - MHPAN



MHPAN



3M Scotchlite™
Reflective Material

Kneepad pockets






Article	Ref./Colours	Standard	Material	Description	Sizes	
MHVES	MHVESJA Fluo yellow-Grey	EN471 3,2	Twill 60% cotton 40% polyester 270 g/m². 3M Scotchlite™ retro-reflective sewn bands.	Jacket. Raglan sleeves. Adjustable cuffs with press studs. High visibility: Class 3 - Silver colour - Parallel assembly. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
MHPAN	MHPANJA Fluo yellow-Grey	EN471 1,2		Trousers. Adjustable waist on both sides with buttons. Preformed knees. High visibility: Class 1 - Silver colour. 6 pockets including 1 ruler pocket.		

OFFSHORE



FEEDER




Article	Ref./Colours	Standard		Material	Description	Sizes		
OFFSHORE	OFFSHOR Fluo orange		 EN471 2,2	100% polyester stich 160 g/m². Retro-reflective sewn bands.	Polo with short sleeves. Collar with button fastening. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.	M/L/XL/XXL	x10	
	OFFSHJA Fluo yellow							
FEEDER	FEEDJA Fluo yellow				75% polyester 35% cotton 200 g/m². Retro-reflective sewn bands.			Tee-shirt with short sleeves. Round collar. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.
	FEEDOR Fluo orange							



PHVES



Article	Ref./Colours	Standard	Material	Description	Sizes	
PHVES	PHVESOM Fluo orange-Navy blue	CE  EN471 2,2	Twill 54% cotton 46% polyester 260 g/m ² . Retro-reflective sewn bands.	Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.	S/M/L/XL/ XXL/3XL	x10
	PHVESJM Fluo yellow-Navy blue					

PHPAN



Inside kneepad pocket

PHBER



Article	Ref./Colours	Standard	Material	Description	Sizes	
PHPAN	PHPANOM Fluo orange-Navy blue	CE  EN471 2,2	Twill 54% cotton 46% polyester 260 g/m ² . Retro-reflective sewn bands.	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	S/M/L/XL/ XXL/3XL	x10
	PHPANJM Fluo yellow-Navy blue					
PHBER	PHBEROM Fluo orange-Navy blue	CE  EN471 1,2	Twill 54% cotton 46% polyester 260 g/m ² . Retro-reflective sewn bands.	Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	PHBERJM Fluo yellow-Navy blue					





OUTDOOR WEAR

HELP WITH CHOICE

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
























































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OUTDOOR WEAR

TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
PREMIUM								BARROW	190
								RONNEBY	191
								MILTON	192
								LULEA	192
								LARVIK	193
								M5PAR	206
								M5POL	207 - 223
								FIDJI	216
								M5GIW	217
								SOMERO	217
							BOLTON	222	
							850	226	
EVOLUTION								FINNMARK	194
								DUNCAN	194
								TOREZ	197
								RANDERS	198
								RUSSEL	199
								HAMPTON	202
								EDSON	203
								BARI	204
								KARIS	207
								STOCKTON	209 - 218
								M2PAW	209
								GOTEBORG	210
								VIBORG	216
								MCGIW	218
								HERALD	219
								SACHA	219
								VERNON	222
								KARIS	222
								CENTO	223
								SHANNON	223
							LIDINGO	224	
							KISSI	225	
							TOFINO	225	
							TYPHOON	227	
							KARA	229	
							CHAMONIX	229	
							JURA	229	
							NORDIC	229	
							NEVE	229	

	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
									
ESSENTIAL		●	●		●	●		RENO	204
		●	●		●	●		ALASKA	205
					●	●		NORTHWOOD	208
		●	●			●		HELSINKI	211
		●	●		●	●		HARRICANA II	212
		●	●		●	●		KINGSTON	212
		●	●		●	●		KIRUNA	212
		●	●		●	●		ISOLA	213
		●	●		●	●		DARWIN II	213
	●	●	●		●	●		SIERRA	220
	●	●	●		●	●		REPORTER	220
		●	●			●		CLUSES	220
		●	●			●		MEDEO	221
	●	●	●		●	●		NEW DELTA	221
	●		●			●		304	226
●		●			●		400	227	
		●			●		CO400	227	
		●					MA400	228	
●		●					305	228	

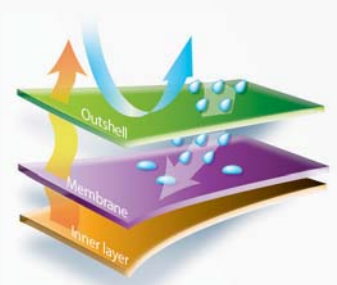
MATERIALS



Material made up of 3 layers.

- Outer layer
- Membrane
- Inner layer

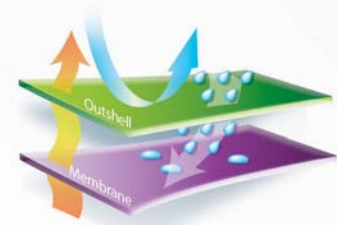
Breathable - Impermeable – Comfortable



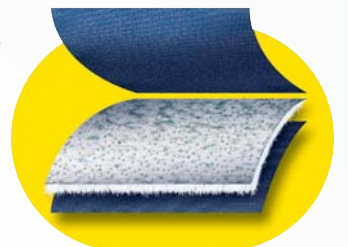
Material made up of 2 layers.

- Outer layer
- Membrane

Breathable - Impermeable – Comfortable



The concept of the aluminised lining is a genuine “shield” against cold and wind while providing movement and comfort to the user.



SIZES

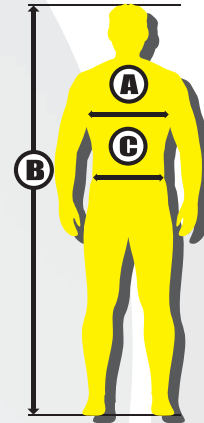
Order the right size by taking the correct measurements

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

► I.E. :

- The measures outlined in the tables are **body ones**.
- For wearing a garment over another, **the width required is provided**.

A	B	C
Chest measurement	Height	Waist measurement



SIZE EQUIVALENCE TABLE

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

MALE	B	XS 156/164	S 156/164	M 164/172	L 172/180	XL 180/188	XXL 188/196	3XL 196/204
JACKET / BOMBER PARKA / VEST Chest measurement (A)	EU	44/46	46/48	48/50	50/52	52/54	54/56	56/58
	IT/DE	48/50	50/52	52/54	54/56	56/58	58/60	60/62
	cm	90/94	94/98	98/102	102/106	106/110	110/114	114/118
	inch	35 ^{1/2} /37	37/38 ^{1/2}	38 ^{1/2} /40	40/41 ^{1/2}	41 ^{1/2} /43 ^{1/2}	43 ^{1/2} /45	45/46 ^{1/2}
TROUSERS Waist measurement (C)	EU	/	34/36	38/40	42/44	46/48	50/52	54/56
	IT/DE	/	38/40	42/44	46/48	50/52	54/56	58/60
	cm	/	66/74	74/82	82/90	90/98	98/106	106/117
	inch	/	26/29	29/32	32/35 ^{1/2}	35 ^{1/2} /38 ^{1/2}	38 ^{1/2} /41 ^{1/2}	41 ^{1/2} /46
UNDERWEAR Chest measurement (A) Waist measurement (C)	EU	/	34/36	38/40	42/44	46/48	50/52	54/56
	IT/DE	/	38/40	42/44	46/48	50/52	54/56	58/60
	cm	/	78/86	86/94	94/102	102/110	110/118	118/123
	inch	/	30 ^{1/2} /34	34/37	37/40	40/43 ^{1/2}	43 ^{1/2} /46 ^{1/2}	46 ^{1/2} /48 ^{1/2}
	cm	/	66/74	74/82	82/90	90/98	98/106	106/117
	inch	/	26/29	29/32	32/35 ^{1/2}	35 ^{1/2} /38 ^{1/2}	38 ^{1/2} /41 ^{1/2}	41 ^{1/2} /46



BARROW
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MOVES
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VE703NO
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MOPAN
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NOMAD S3 SRC
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VE703NO
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BARROW
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BARROW



Fixed badge holder included



Removable quilted hood



Collar with polar fleece lining



Inside cuff with a hole for thumb against wind



Rear vent for embroidery access

Article	Ref./Colours	Standard	Material	Description	Sizes	
BARROW	BARRONO Black	EN14058 3, 2, X 0.288m².K/W, X	Canvas : 65% polyester, 35% cotton. Lining : Quilted in polyester Taffeta.	Parka. Fastened with a zip under the storm flap with Velcro and press studs. 11 pockets.	S/M/L/XL/ XXL/3XL	x10



RONNEBY



Fixed badge holder included



Removable hood with lateral transparent part for more ergonomie



Collar with polar fleece lining



Inside cuff with a hole for thumb against wind



Rear vent for embroidery access



Article	Ref./Colours	Standard	Material	Description	Sizes	
RONNEBY	RONNENO Black	 EN14058 3, 3, X 0.251m².K/W, X  EN343 3,1	Polyurethane-coated Oxford polyester fabric. Top lining : Wadded polyester polar fleece. Bottom lining : Wadded polyester Taffeta.	Parka. Waterproof seams. Collar with polar fleece lining. Fastening with zip under velcro storm flap. 9 pockets.	S/M/L/XL/XXL/3XL	x10

MILTON



Pocket for document



Elbows and shoulders with reinforcement



WATERPROOF AND BREATHABLE
Water vapour resistance
Ret < 20 m² Pa/W
with ISO11092 and EN31092

Article	Ref./Colours	Material	Description	Sizes	
MILTON	MILTONO Black	CE 94% polyester 6% elastane fabric, 2 laminated layers. Yokes : Polyurethane-coated Oxford polyester fabric. Quilted Taffeta polyester lining.	Parka. Waterproof seams. Fastening with zip under velcro storm flap. Removable wadded hood. Adjustable bottom of garment with elastic drawstring. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	MILTORO Red				

LULEA



Softshell : flexible, light, soft and water repellent



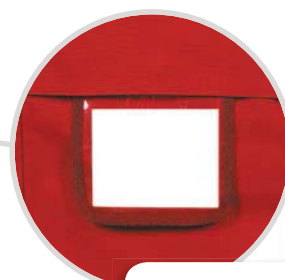
Article	Ref./Colours	Material	Description	Sizes	
LULEA	LULEAGR Dark grey-Light grey	Softshell 96% polyester 4% elastane fabric.	Jacket (To match the MACH 2 CORPORATE range). Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. 3 pockets.	S/M/L/XL/ XXL/3XL	x10
	LULEABM Navy blue-Black				
	LULEANO Black-Grey				



LARVIK



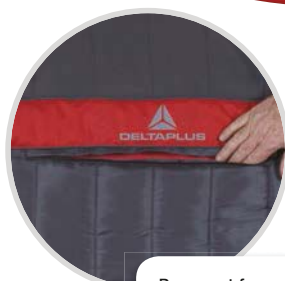
Reflective parts



Fixed badge holder included

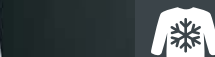


Inside cuff with a hole for thumb against wind



Rear vent for embroidery access

Article	Ref./Colours	Standard	Material	Description	Sizes	
LARVIK	LARVIRO Red	 EN14058 3,3,X 0,270 m2 K/W,X  EN343 3,1	Polyurethane-coated Oxford polyester fabric. Top lining : Quilted in polyester polar fleece. Bottom lining : Quilted in polyester Taffeta.	Parka. Waterproof seams. Wadded removable hood. Fastened with a zip under the storm flap with Velcro and press studs. Bottom of garment adjustable with elastic drawstring. 10 pockets.	S/M/L/XL/XXL/3XL	x10



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KARA
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VERNON
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NEVE
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DMPAN
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FINNMARK




Removable hood



Decorative retro-reflective bands (front)



Rear vent for embroidery access

Article	Ref./Colours	Standard	Material	Description	Sizes	
FINNMARK	FINNMBM Navy blue-Black	CE  EN343 3,1	PVC-coated Ripstop polyester fabric. Quilted polyester Taffeta lining.	Parka. Waterproof seams. Collar with polar fleece lining. Fastening with zip under velcro storm flap. Adjustable bottom of garment with elastic drawstring. 5 pockets.	S/M/L/XL/ XXL/3XL	x10

DUNCAN





Fix armlet included in the sleeve pocket



Rear vent for embroidery access



Fixed badge holder included

Article	Ref./Colours	Standard	Material	Description	Sizes	
DUNCAN	DUNCAGR Grey	CE  EN14058 3,3,X 0,271 m². K/W,X  EN343 3,1	PVC-coated Ripstop polyester fabric. Top lining : Wadded polyester polar fleece. Bottom lining : Wadded polyester Taffeta.	Parka. Waterproof seams. Fastening with zip under velcro storm flap. Removable hood. Underarm ventilation with eyelets. Adjustable bottom of garment with elastic drawstring. 5 pockets.	S/M/L/XL/ XXL/3XL	x10



TOREZ



Fixed badge holder included



Removable wadded hood



Collar with polar fleece lining



Rear vent for embroidery access



Article	Ref./Colours	Material	Description	Sizes	
TOREZ	TOREZGN Grey-Black	 Polyurethane-coated polyamide fabric. Lining : Quilted in polyester Taffeta.	Parka (To match the D-MACH range). Waterproof seams. Fastened with a zip under the storm flap with Velcro and press studs. Adjustable bottom of garment with elastic drawstring. 5 pockets.	S/M/L/XL/ XXL/3XL	 x10

RANDERS



Underarm ventilation eyelets



Removable sleeves



Removable wadded hood



Fixed badge holder included



Rear vent for embroidery access



Article	Ref./Colours		Material	Description	Sizes	
RANDERS	RANDEGR Grey	CE	Quilted polyurethane-coated polyamide fabric. Lining : Quilted in polyester Taffeta.	Quilted bomber jacket with removable sleeves (To match the D-MACH range). Fastened with a zip under the storm flap with press studs. Knitted cuffs and bottom of garment. 5 pockets.	S/M/L/XL/ XXL/3XL	x10



RUSSEL



Collar with polar fleece lining



Decorative reflective piping (front and back)



Fixed badge holder



Rear vent for embroidery access



Adjustable waist and bottom with elastic drawstring

Article	Ref./Colours	Standard		Material	Description	Sizes	
RUSSEL	RUSSEGR Grey	CE	 EN343 3,1	PVC-coated Pongee polyester fabric. Top lining : Wadded polyester polar fleece. Bottom lining : Wadded polyester Taffeta.	Parka. Waterproof seams. Fastening with zip under press stud and velcro storm flap. Removable hood. 7 pockets.	S/M/L/XL/ XXL/3XL	x10



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HAMPTON



Removable quilted hood



Adjustable waist and bottom of garment with drawstring




Pocket with opening under flap and hand slit with polar fleece lining



Rear vent for embroidery access



Knitted inside cuffs

Article	Ref./Colours	Standard	Material	Description	Sizes	
HAMPTON	HAMPTGJ Grey-Yellow	CE  EN14058 3.2.X X.X	Twill 65% polyester 35% cotton 245 g/m ² . Lining : Quilted in polyester Taffeta.	Parka (To match the D-MACH range). Fastened with a zip under the storm flap with buttons. 8 pockets.	S/M/L/XL/ XXL/3XL	x10



EDSON



Hole for audio wire



Removable wadded hood



Fixed badge holder included



Knitted inside cuffs

Matches the VIBORG
bodywarmer page 216



Article	Ref./Colours	Standard		Material	Description	Sizes	
EDSON	EDSONNO Black	CE	 EN343 3,1	PVC-coated Pongee polyester fabric. Lining : Quilted in polyester Taffeta.	Parka. Waterproof seams. 10 pockets.	S/M/L/XL/ XXL/3XL	x10

RENO



Fixed badge holder included



Polar fleece lining

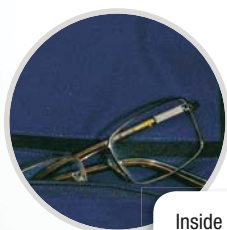


Article	Ref./Colours		Material	Description	Sizes	
RENO	RENOVE Green	CE	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining.	Bomber jacket with removable sleeves. Collar with polar fleece lining. Knitted cuffs and bottom of garment. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	RENOBM Navy blue					
	RENONO Black					

BARI



Mesh lining with cotton fleece



Inside pocket for glasses



Article	Ref./Colours		Material	Description	Sizes	
BARI	BARIBM Navy blue	CE	Polyurethane-coated Taslon polyamide fabric. Polyester body lining. Wadded polyester Taffeta sleeve lining.	Blouson. Waterproof seams. Raglan sleeves. Elasticated bottom of garment. Underarm ventilation with eyelets. 6 pockets.	S/M/L/XL/ XXL/3XL	x10



ALASKA



ThinsulateTM
INSULATION
3M



3M ThinsulateTM removable
insulation lining

Fixed hood

Reinforced wrists

Article	Ref./Colours	Standard	Material	Description	Sizes	
ALASKA	ALASKGR Black-Grey	CE	PVC-coated Pongee polyester fabric. Fixed Taffeta polyester lining. Removable Wadded 3M Thinsulate TM polyester Taffeta lining.	2 in 1 parka: Removable lining. Parka: Waterproof seams. Collar with polar fleece lining. Fastening with zip under velcro storm flap. Adjustable waist and bottom of garment with elastic drawstring. 4 pockets. Removable lining: 1 pocket.	S/M/L/XL/ XXL/3XL	x10
	ALASKRO Navy blue-Red	EN14058 3.3.X 0.285m ² .K/W,X				
	ALASKBR Navy blue-Royal blue	EN343 3,1				



MACH SPIRIT WINTER

M5PAR



3 in 1 chest pocket



Removable hood



Matches the M5GIW
bodywarmer page 217

Article	Ref./Colours		Material	Description	Sizes	
M5PAR	M5PARGN Grey-Black	CE	Polyurethane-coated Oxford polyester fabric. Wadded polyester Taffeta lining.	Parka. Waterproof seams. Collar with polar fleece lining. Fastening with zip under velcro storm flap. Adjustable waist with elastic drawstring. 6 pockets.	S/M/L/XL/ XXL/3XL	x10
	M5PARBN Beige-Black					



M5POL



Article	Ref./Colours	Material	Description	Sizes	
M5POL	M5POLGR Grey-Black	Piqué stitch 100% cotton 210 g/m².	Polo with long sleeves (To match MACH SPIRIT range). Knitted cuffs. 1 pocket.	S/M/L/XL/ XXL/3XL	x10
	M5POLBE Beige-Black				

KARIS



Fleeced inside



Fixed badge holder
included



Reinforced elbows

Article	Ref./Colours	Material	Description	Sizes	
KARIS	KARISGR Grey-Dark grey	Polyester polar fleece 600 g/m². Yokes : 100% cotton.	Polar fleece jacket (To match MACH SPIRIT range). Bias finishing. 4 pockets.	S/M/L/XL/XXL	x10
	KARISBE Beige-Dark grey				



MACH 2 WINTER


NORTHWOOD



Badge holder

Removable sleeves



Article	Ref./Colours		Material	Description	Sizes	
NORTHWOOD	NORTHGR Grey-Orange	CE	Polyurethane-coated Oxford polyester fabric. Top lining : Wadded polyester mesh - Bottom lining : Wadded polyester Taffeta.	Warm jacket with removable sleeves. Ranglan sleeves. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	NORTHBL Navy blue-Royal blue					
	NORTHNO Black-Grey					



STOCKTON



Windbreaker arm-hole



Multipockets

Article	Ref./Colours		Material	Description	Sizes	
STOCKTON	STOCKGR Grey-Orange	CE	Quilted twill 65% polyester 35% cotton 235 g/m ² . Wadded polyester Taffeta lining.	Multipocket bodywarmer. Adjustable bottom with elastic drawstring. 7 pockets.	S/M/L/XL/ XXL/3XL	x10
	STOCKBL Navy blue-Royal blue					
	STOCKNO Black-Grey					

M2PAW



Trousers with flanel lining



Kneepad pockets

Article	Ref./Colours		Material	Description	Sizes	
M2PAW	M2PAWGR Grey-Orange	CE	Twill 65% polyester 35% cotton 245 g/m ² . 100% flanel cotton lining.	Warm trousers. Elasticated waist on both sides. 7 pockets including 1 ruler.	S/M/L/XL/ XXL/3XL	x10
	M2PAWNO Black-Grey					



CLASSIC

GOTEBORG






Fixed badge holder included

No metallic part



Rear vent for embroidery access

Article	Ref./Colours	Standard	Material	Description	Sizes	
GOTEBORG	GOTEBBM Navy blue	  EN14058 3,3,X 0,250 m2 K/W,X  EN343 3,1	PVC-coated Twill polyester fabric. Top lining : Wadded polyester polar fleece. Bottom lining : Wadded polyester Taffeta.	Parka. Waterproof seams. Collar with polar fleece lining. Fastening with zip under velcro storm flap. Removable hood. Adjustable bottom of garment with elastic drawstring. 5 pockets.	S/M/L/XL/ XXL/3XL	x10



HELSINKI



EN342

Cold protection





Wadded removable hood



Knitted inside cuffs



Article	Ref./Colours		Standard	Material	Description	Sizes	
HELSINKI	HELSIBM Navy blue	CE	 EN342 0,436 m ² .K/W (B) X.3.X  EN343 3,1	PVC-coated polyester fabric. Wadded polyester Taffeta lining.	Parka. Waterproof seams. Fastening with zip under press studs storm flap. Adjustable cuffs with drawstring. 6 pockets.	S/M/L/XL/ XXL/3XL	x10


HARRICANA II



DELTALU insulating lining
KIRUNA - KINGSTON - HARRICANA II

Badge holder
KIRUNA - KINGSTON - HARRICANA II






Article	Ref./Colours	Standard	Material	Description	Sizes	
HARRICANA II	HARRIBI Navy blue-Royal blue	CE  EN14058 2.3.X 0.276m ² .K/W.X	Polyurethane-coated polyester fabric. Wadded DELTALU polyester Taffeta lining.	Parka. Removable wadded hood. Adjustable waist and bottom of garment with elastic drawstring. 7 pockets.	S/M/L/XL/XXL	x10

KINGSTON



KIRUNA



Article	Ref./Colours	Standard	Material	Description	Sizes	
KINGSTON	KINGSBL Navy blue-Royal blue	 EN343 3,1	PVC-coated polyester fabric. Wadded DELTALU polyester Taffeta lining.	Parka. Waterproof seams. Fixed hood. Adjustable waist and bottom of garment with drawstring. 5 pockets.	S/M/L/XL/XXL	x10
KIRUNA	KIRUNBL Navy blue-Royal blue	CE  EN14058 2.3.X 0.245m ² .K/W.X		Blouson with removable sleeves. Waterproof seams. Fixed hood. 6 pockets.		
		 EN343 3,1				



ISOLA



Removable lining



Article	Ref./Colours	Standard		Material	Description	Sizes	
ISOLA	ISOLABL Navy blue	CE	EN343 3,1	PVC-coated polyester fabric. Fixed polyester Taffeta lining. Removable quilted polyamide Taffeta lining.	3 in 1 parka: Removable liningParka :Water- proof seams. Fixed hood. Adjustable waist and bottom of garment with elastic drawstring. 6 pockets. Removable lining :Collar with corduroy lining. Removable sleeves. Fastening with press studs. Gusset opening on sides with press- studs. 2 pockets.	S/M/L/XL/XXL	x10

DARWIN II



Badge holder
DARWIN II - ISOLA



Article	Ref./Colours	Standard		Material	Description	Sizes	
DARWIN II	DARW2BL Navy blue	CE	EN343 3,1	PVC-coated polyester fabric. Quilted polyester Taffeta lining.	Parka. Waterproof seams. Fixed hood. Adjustable waist and bottom of garment with drawstring. Knitted cuffs. 6 pockets.	XS/S/M/L/XL/ XXL	x10
	DARW2VE Green						



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VIBORG



Article	Ref./Colours	Material	Description	Sizes	
VIBORG	VIBORNO Black	CE PVC-coated Pongee polyester fabric. Lining : Quilted in polyester Taffeta.	Bodywarmer with multi pockets (D-MACH range). Fastened with a zip under the storm flap with Velcro. Knitted front and side bottom of garment. 9 pockets.	S/M/L/XL/ XXL/3XL	x10

FIDJI



Article	Ref./Colours	Material	Description	Sizes	
FIDJI	FIDJIOR Orange-Grey	CE PVC-coated Pongee polyester fabric. Wadded polyester polar fleece lining.	Bodywarmer. Collar with polar fleece lining. 3 pockets.	S/M/L/XL/XXL	x10
	FIDJINO Black				
	FIDJIGR Grey-Black				



M5GIW



Windbreaker arm-hole



Lower back tightening



3 in 1 chest pocket

Article	Ref./Colours		Material	Description	Sizes	
M5GIW	M5GIWGN Grey-Black	CE	Polyurethane-coated Oxford polyester fabric. Wadded polyester Taffeta lining.	Bodywarmer. Waterproof seams. Collar with polar fleece lining. Fastening with zip under velcro storm flap. 7 pockets.	S/M/L/XL/ XXL/3XL	x10
	M5GIWBN Beige-Black					

SOMERO



Decorative bands
(front and back)



Article	Ref./Colours		Material	Description	Sizes	
SOMERO	SOMERRO Red	CE	Polyurethane-coated microfibre polyester fabric. Wadded polyester Taffeta lining.	Multipockets bodywarmer. Fastening with zip under velcro storm flap. Adjustable bottom of garment with elastic drawstring. 7 pockets.	S/M/L/XL/ XXL/3XL	x10



STOCKTON



Windbreaker arm-hole

Multipockets



Article	Ref./Colours		Material	Description	Sizes	
STOCKTON	STOCKGR Grey-Orange	CE	Quilted twill 65% polyester 35% cotton 235 g/m ² . Wadded polyester Taffeta lining.	Multipocket bodywarmer. Adjustable bottom with elastic drawstring. 7 pockets.	S/M/L/XL/ XXL/3XL	x10
	STOCKBL Navy blue-Royal blue					
	STOCKNO Black-Grey					

MCGIW



Windbreaker arm-hole

Badge holder



Article	Ref./Colours		Material	Description	Sizes	
MCGIW	MCGIWGR Light grey-Dark grey	CE	Twill 65% polyester 35% cotton 235 g/m ² . Wadded polyester Taffeta lining.	Multipocket bodywarmer. 6 pockets.	S/M/L/XL/ XXL/3XL	x10
	MCGIWBE Beige-Dark grey					
	MCGIWBM Navy blue-Black					



HERALD



Windbreaker arm-hole



Lower back protection



Fixed badge holder

Article	Ref./Colours		Material	Description	Sizes	
HERALD	HERALMN Navy blue-Black	CE	65% polyester 35% quilted cotton canvas. Wadded polyester Taffeta lining.	Multipocket bodywarmer. Elasticated on both sides and back. 5 pockets.	S/M/L/XL/ XXL/3XL	x10
	HERALGM Grey-Navy blue					

SACHA



Polar fleece lining



Article	Ref./Colours		Material	Description	Sizes	
SACHA	SACHAVE Green	CE	Ripstop canvas 65% polyester 35% cotton 180 g/m². Wadded polar fleece polyester lining.	Bodywarmer. 4 pockets	38/40 to 50/52	x10
	SACHABC White					



SEASON

SIERRA



Windbreaker arm-hole

Lower back protection



Article	Ref./Colours		Material	Description	Sizes	
SIERRA	SIERRVE Green	CE	65% polyester 35% quilted cotton canvas. Wadded polyester Taffeta lining.	Multipocket bodywarmer. Elasticated on both sides and back. 7 pockets.	S/M/L/XL/ XXL/3XL	x20
	SIERRBM Navy blue					
	SIERRBR Navy blue-Red					
	SIERRGR Grey					

REPORTER



CLUSES



Article	Ref./Colours		Material	Description	Sizes	
REPORTER	REPORBL Navy blue	CE	65% polyester 35% cotton fabric. Quilted polyester Taffeta lining.	Multipocket bodywarmer. Adjustable bottom of garment with press-studs. 6 pockets.	S/M/L/XL/XXL	x20
CLUSES	CLUSEBL Navy blue		65% polyester 35% quilted cotton canvas. Quilted polyester Taffeta lining.	Bodywarmer. Elasticated bottom of garment. 4 pockets.		



MEDEO



Fixed badge holder included



Removable sleeves



Article	Ref./Colours	Material	Description	Sizes	
MEDEO	MEDEONO Black	CE Canvas : 65% polyester, 35% cotton. Lining : Quilted in polyester Taffeta.	Bomber jacket with removable sleeves. Knitted cuffs and bottom of garment. 5 pockets.	S/M/L/XL/ XXL/3XL	x10

NEW DELTA



Removable sleeves



Article	Ref./Colours	Material	Description	Sizes	
NEW DELTA	NEWDEBL Navy blue	CE 65% polyester 35% quilted cotton fabric. Quilted polyester Taffeta lining.	Bomber jacket with removable sleeves. Elasticated cuffs and bottom of garment. 4 pockets.	M/L/XL/XXL	x10



POLAR AND PULL-OVER

VERNON



Article	Ref./Colours	Material	Description	Sizes	
VERNON	VERNORO Red	Polyester polar fleece 280 g/m ² .	Polar fleece jacket. Elasticated cuffs. 2 pockets.	S/M/L/XL/ XXL/3XL	x10
	VERNOBR Blue				
	VERNONO Black				

BOLTON



KARIS



Article	Ref./Colours	Material	Description	Sizes	
BOLTON	BOLTOBL Blue-Black	Polyester polar fleece 350 g/m ² . Yokes : Taslon polyester.	Polar fleece jacket. 3 pockets.	S/M/L/XL/ XXL/3XL	x10
	BOLTORO Red-Navy blue				
KARIS	KARISGR Grey-Dark grey	Polyester polar fleece 600 g/m ² . Yokes : 100% cotton.	Polar fleece jacket (To match MACH SPIRIT range). Bias finishing. 4 pockets.	S/M/L/XL/XXL	
	KARISBE Beige-Dark grey				



CENTO



Article	Ref./Colours	Material	Description	Sizes	
CENTO	CENTOJ Dark grey	65% polyester fleece 35% coton.	Sweat jacket (To match MACH SPIRIT range). Front fastening with zip. Knitted cuffs and bottom of garment. 2 lower pockets. Adjustable hood with drawstring.	S/M/L/XL/ XXL/3XL	x10

SHANNON



M5POL



Article	Ref./Colours	Material	Description	Sizes	
SHANNON	SHANNNO Black	Cotton stich 350 g/m².	Sweat shirt. Knitted cuffs. Decorative stitching.	S/M/L/XL/ XXL/3XL	x10
M5POL	M5POLGR Grey-Black	Piqué stich 100% cotton 210 g/m².	Polo with long sleeves (To match MACH SPIRIT range). Knitted cuffs. 1 pocket.		
	M5POLBE Beige-Black				



RAIN

LIDINGO



Decorative retro-reflective bands




Fixed hood



Underarm ventilation eyelets



Article	Ref./Colours	Standard	Material	Description	Sizes	
LIDINGO	LIDINBM Navy blue-Royal blue	CE  EN343 3,1	PVC-coated polyester fabric. Jacket lining : Polyester mesh. Trousers lining : Polyester Taffeta.	Rain jacket and trousers. Waterproof seams. JACKET: Fixed hood. Adjustable bottom with elastic drawstring. 5 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 pockets.	S/M/L/XL/ XXL/3XL	x10



KISSI




Fixed badge holder included



Decorative retro-reflective bands (front and back)



Collar with polar fleece finishing for more comfort

Article	Ref./Colours	Standard	Material	Description	Sizes	
KISSI	KISSIOR Orange	CE  EN343 3,1	PVC-coated polyester fabric. Polyester mesh lining.	Rain jacket. Waterproof seams. Fastening with zip under velcro and press studs storm flap. Fixed hood. Underarm ventilation with eyelets. Adjustable bottom of garment with elastic drawstring. 6 pockets. Flap back ventilation.	S/M/L/XL/ XXL/3XL	x10
	KISSIRO Red					
	KISSIBM Navy blue					

TOFINO




Rear vent with press studs for embroidery access



Decorative retro-reflective bands (front and back)



Article	Ref./Colours	Standard	Material	Description	Sizes	
TOFINO	TOFINNO Black	CE  EN343 3,1	PVC-coated polyester fabric. Polyester mesh lining.	Rain coat. Waterproof seams. Fastening with zip under velcro and press studs storm flap. Fixed hood. 2 pockets. Flap ventilation.	S/M/L/XL/ XXL/3XL	x10



RAIN

850



Flap back ventilation



Article	Ref./Colours	Standard		Material	Description	Sizes	
850	EN850BM Navy blue	CE	EN343 3,1	Mixed polyurethane-coated polyester support.	Rain jacket and trousers. Sealed seams. JACKET: Fastening with zip under storm flap. Fixed hood. Underarm ventilation with eyelets. Elasticated inside cuffs. Adjustable bottom of garment with elastic drawstring. 2 pockets. Ventilation back flap. TROUSERS: Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.	S/M/L/XL/ XXL/3XL	x10
	EN850JA Yellow						
	EN850VE Green						

304



Ventilation back flap
Underarm ventilation eyelets



Article	Ref./Colours	Standard		Material	Description	Sizes	
304	EN304VE Green	CE	EN343 3,1	PVC-coated polyester support. Double sided coating.	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.	M/L/XL/XXL	x10
	EN304JA Yellow						




400



Ventilation back flap
Underarm ventilation eyelets



Article	Ref./Colours	Standard		Material	Description	Sizes	
400	EN400VE Green	CE		PVC-coated polyester fabric.	Rain jacket and trousers. Waterproof seams. JACKET: Fixed hood. Fastening with zip under storm flap. Raglan sleeves. Adjustable cuffs with press-studs. 2 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 hand slits.	M/L/XL/XXL	x20
	EN400MA Navy blue						
	EN400JA Yellow						
	EN400BR Royal blue						


CO400



TYPHOON



Adjustable bottom legs

Article	Ref./Colours	Standard		Material	Description	Sizes	
CO400	CO400MA Navy blue	CE		PVC-coated polyester fabric.	Rain overall with double zip. Waterproof seams. Removable hood with press-studs. Elasticated waist at the back. Raglan sleeves. Adjustable cuffs with press-studs. 4 pockets.	M/L/XL/XXL	x20
	CO400VE Green						
TYPHOON	TYPHOBM Navy blue			PVC-coated polyester fabric. Polyester Taffeta lining.	Rain trousers. Waterproof seams. Elasticated waist. Bottom legs with press-stud opening. 5 pockets.		x10



RAIN

MA400



Decorative retro-reflective bands
(front and back)

Ventilation back flap
Underarm ventilation eyelets



Article	Ref./Colours	Standard	Material	Description	Sizes	
MA400	MA400VE Green	CE  EN343 3,1	PVC-coated polyester fabric.	Rain coat. Waterproof seams. Fixed hood. Fastening with zip under storm flap. Elasticated inside cuffs. 2 pockets.	M/L/XL/XXL	x20
	MA400JA Yellow					


305



Ventilation back flap
Underarm ventilation eyelets
304 - 305

Length 1,20 m



Article	Ref./Colours	Standard	Material	Description	Sizes	
305	MA305VE Green	CE  EN343 3,1	PVC-coated polyester support. Double side coating.	Rain coat. Sealed seams. Fixed hood. Fastening with double press-stud flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets.	M/L/XL/XXL	x10
	MA305JA Yellow					



Article	Ref./Colours	Description	Sizes	
A C C E S S O R I E S				
KARA 	KARANO Black	Cap in wadded 3M Thinsulate™ polyester polar fleece.	ONE SIZE	x12
	KARABL Navy blue			
	KARARO Red			
	KARAGR Grey			
CHAMONIX 	CHAMORO Red	Neck scarf in polyester polar fleece. Tightening with elastic drawstring.	ONE SIZE	x12
	CHAMOBL Navy blue			
JURA 	JURANO Black	Double thickness cap in acrylic knit.	ONE SIZE	x12
	JURABL Navy blue			
	JURAGR Grey			
NORDIC 	NORDIVE Green	Warm cap in polyamide canvas with synthetic lining. Wadded polyester Taffeta lining. Protective ear flaps	ONE SIZE	x12
	NORDIBL Navy blue			
NEVE 	NEVENO Black	Gloves in polyester polar fleece.	ONE SIZE	x12
	NEVEBM Navy blue			





TECHNICAL WEAR

HELP WITH CHOICE

232

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Forestry p. 248

Cold storage p. 250

Anti-acid/flame retardant/antistatic p. 256

Flame retardant p. 258

Flame retardant/antistatic p. 260

Protective aprons p. 262

Welders p. 263





TECHNICAL WEAR

TO FIND THE SUITABLE PRODUCT FOR YOUR JOB

	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
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RETRO-REFLECTIVE TECHNOLOGY 3M SCOTCHLITE™

They send the light of vehicle headlights back to their source and improve visibility distance of a pedestrian by 30 to 160 metres.

3M SCOTCHLITE™ TECHNOLOGY

- **Micro-ball technology:** glass micro-balls encased in a reflective resin.

► SEE OUR SIZE CHARTS FOR:

Workwear: page 143

Outside clothing: page 187



MATERIALS

We offer a wide range of cold-resistant garments developed in partnership with 3M® using insulating THINSULATE™.

The Extras

The spaced vertical padding makes it possible to improve the thermal isolation. Moreover, the use of insulating THINSULATE™, very fine and flexible, contributes to the great freedom of movement and ensures controlled thermal isolation.

THINSULATE™ thermal insulation - Type CS250

► QUALITIES:

- Warm and thin – water repellent fibre
- Warmth without thickness
- Soft and even insulation
- Breathability

For the same thickness, this insulation offers approximately one and a half times the warmth of down and almost twice the thermal resistance of high bulk fibre quilting.

► COMPOSITION :

- 65 % polyolefins, 35 % polyester

► CHARACTERISTICS:

Thickness	(cm)	1,75
Weight	(g/m²)	263
Warmth R _{ct}	(m²K/W)	0,48

Thinsulate™ thermal insulation - Type G

► QUALITIES:

- Warm and soft
- Very light and hard wearing
- Flexible
- Breathability
- Optimum comfort

Made of very fine denier polyester fibres, this material offers a maximum of warmth combined with great flexibility. The ideal material for classic outdoor garments.

► COMPOSITION:

- 100 % polyester

► CHARACTERISTICS:

Thickness	(cm)	1,52
Weight	(g/m²)	151
Warmth R _{ct}	(m²K/W)	0,38



HIGH VISIBILITY

MULTIVIEW






3M Scotchlite™
Reflective Material



4 in 1 parka with FREEWAY jacket
p. 241



Article	Ref./Colours	Standard	Material	Description	Sizes	
MULTIVIEW	MULTIJA Fluo yellow-Grey	<div>  EN471 3.2 </div> <div>  EN343 3.1 </div> <div>  EN14058 3.3.2 0.305 m².K/W.X </div>	Polyurethane-coated Oxford polyester fabric. Polyester Taffeta lining. 3M Scotchlite™ retro-reflective sewn bands. Removable jacket FREEWAY.	4 in 1 rain warm parka: Removable lining. Waterproof seams. Fixed hood. Underarm ventilation eyelets. Fastening with zip under press stud storm flap. Adjustable waist with elastic drawstring. Knitted inside cuffs. Yokes for dirt resistance. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 5 pockets.	S/M/L/XL/ XXL/3XL	x5



STRADA 2



3M Scotchlite™
Reflective Material



Knitted inside cuffs



Article	Ref./Colours	Standard	Material	Description	Sizes	
STRADA 2	STRA2JA Fluo yellow-Navy blue	EN471 3.2 EN343 3.1 EN14058 3.3.2 0,259 m².K/W.X	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining. 3M Scotchlite™ retro-reflective sewn bands.	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.	S/M/L/XL/ XXL/3XL	x5
	STRA2OR Fluo orange-Navy blue					

OPTIMUM





Article	Ref./Colours	Standard	Material	Description	Sizes	
OPTIMUM	OPTIMUMJ Fluo yellow-Navy blue	EN471 3.1 Parka 2.1 Bodywarmer EN343 3.1 Parka	PVC-coated Oxford polyester fabric. Fixed polyester Taffeta lining. PVC-coated Oxford polyester removable bodywarmer with removable sleeves in polyester polar fleece. Quilted polyester Taffeta lining. Retro-reflective sewn bands.	Parka 4 in 1: removable bodywarmer. Parka :Waterproof seams. Fastening with zip under storm flap. Fixed hood. 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.	S/M/L/XL/ XXL/3XL	x10
	OPTIMUMOM Fluo orange-Navy blue					



HIGH VISIBILITY

EASYVIEW

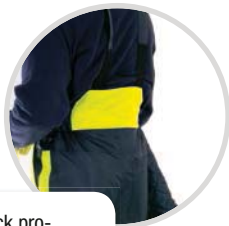


Article	Ref./Colours	Standard	Material	Description	Sizes	
EASYVIEW	EASYVOM Fluo orange-Navy blue	CE  EN471 3.2  EN343 3.1	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining. Retro-reflective sewn bands.	Warm parka. Waterproof seams. Fixed hood. Fastening with zip under velcro storm flap. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	S/M/L/XL/XXL/3XL	x10
	EASYVJM Fluo yellow-Navy blue					

FARGO HV






3M Scotchlite™
Reflective Material



Higher back protection



Bottom of legs with gusset

Article	Ref./Colours	Standard	Material	Description	Sizes	
FARGO HV	FARGOHVJA Fluo yellow-Navy blue	CE  EN471 1.2  EN343 3.1  EN14058 3.3.2	Polyurethane-coated Oxford polyester fabric. Wadded polyester Taffeta lining. Retro-reflective sewn bands.	Warm trousers. Waterproof seams. Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. High visibility: Class 1 - Silver colour. 4 pockets.	S/M/L/XL/XXL/3XL	x10
	FARGOHVOR Fluo orange-Navy blue					



RENO HV



Polar fleece lining



Bomber jacket without sleeves



Article	Ref./Colours	Standard	Material	Description	Sizes	
RENO HV	RENHVJA Fluo yellow	CE EN471 3.2 Bomber EN343 3.1 Bodywarmer	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining. Retro-reflective sewn bands.	Bomber jacket with removable sleeves. Collar with polar fleece lining. 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.	S/M/L/XL/ XXL/3XL	x10
	RENHVOOR Fluo orange					

RESCUE HV



3M Scotchlite™
Reflective Material



Article	Ref./Colours	Standard	Material	Description	Sizes	
RESCUE HV	RESCUHVJA Fluo yellow	CE EN471 3.2	Polyester fleece. Retro-reflective sewn bands.	Sweatshirt jacket. Fixed hood. Knitted cuffs and bottom of garment High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 2 pockets.	M/L/XL/ XXL	x10



MOONLIGHT

MOONLIGHT
p. 240



BASEBALL DIAMOND V
p. 30



PAGAYA SMOKE
p. 16



M2PAW
p. 209




VE703N0
p. 74



VIAGI S1P SRC
p. 287





**BASEBALL
DIAMOND V**
p. 30

**PACAYA
SMOKE**
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M2PAW
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VIAGI S1P
p. 287



HIGH VISIBILITY

MOONLIGHT




tech



WATERPROOF AND BREATHABLE
Water vapour resistance
Ret < 25 m² Pa/W
with ISO11092 and EN31092

Softshell : Breathable, repellent, flexible,
light and soft



Article	Ref./Colours	Standard	Material	Description	Sizes	
MOONLIGHT	MOONLOR Fluo orange	CE  EN471 3.2	Softshell 90% polyester 10% elasthane fabric, 3 laminated layers. Retro-reflective sewn bands.	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 3 pockets.	S/M/L/XL/ XXL/3XL	x10
	MOONLJA Fluo yellow					



FREEWAY HV



Can become a removable lining for MULTIVIEW p. 234

Article	Ref./Colours	Standard		Material	Description	Sizes	
FREEWAY HV	FREEWHVOR Fluo orange-Navy blue	CE	EN471 2.2	Polyester fabric. Quilted polyester Taffeta lining. Sleeves 65% polyester 35% quilted cotton fabric. Retro-reflective sewn bands.	Jacket with removable sleeves. Collar with polar fleece lining. Knitted cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	M/L/XL/XXL	x10
	FREEWHVJA Fluo yellow-Navy blue						

STREET HV



Article	Ref./Colours	Standard		Material	Description	Sizes	
STREET HV	STREEHVBJ Fluo yellow-Navy blue	CE	EN471 2.2	1 side polyester fabric. 1 side 65% polyester 35% quilted cotton fabric. Retro-reflective sewn bands.	Reversible bodywarmer. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 5 pockets.	M/L/XL/XXL	x10



HIGH VISIBILITY

208





3M Scotchlite™
Reflective Material



Windstopper elasticated inside cuffs
208 - 604 - 605





Article	Ref./Colours	Standard	Material	Description	Sizes	
208	EN208JA Fluo yellow	 EN471 3.2 Jacket 1.2 Trousers  EN343 3.1	PVC-coated Oxford polyester fabric. 3M Scotchlite™ retro-reflective sewn bands.	Rain suit :JACKET :Waterproof seams. Fixed hood. Fastening with zip under press stud flap. Raglan sleeves. High visibility: Class 3 - Silver colour - Parallel assembly. 2 pockets. TROUSERS :Elasticated waist. Fly closed with press studs. Adjustable bottom of legs with press studs. High visibility: Class 1 - Silver colour - Parallel assembly. 1 hand slit.	M/L/XL/XXL	x10

604



3M Scotchlite™
Reflective Material





Article	Ref./Colours	Standard	Material	Description	Sizes	
604	EN604JA Fluo yellow	 EN471 3.2 Jacket 1.2 Trousers  EN343 3.1	PVC-coated polyester support - Outside coating. 3M Scotchlite™ retro-reflective transferred bands.	Rain suit :JACKET :Sealed seams. Fixed hood. Fastening with zip under press stud flap. Raglan sleeves. High visibility: Class 3 - Silver colour - Parallel assembly. 1 pocket. TROUSERS :Elasticated waist. Fly closed with press studs. Adjustable bottom of legs with press studs. High visibility: Class 1 - Silver colour - Parallel assembly. 1 hand slit.	S/M/L/XL/XXL	x10
	EN604OR Fluo orange					



605


3M Scotchlite™
 Reflective Material

 Ventilation back flap
 Underarm ventilation eyelets
 208 - 604 - 605


Article	Ref./Colours	Standard	Material	Description	Sizes	
605	MA605JA Fluo yellow	CE  EN471 3.2  EN343 3.1	PVC-coated polyester support - Outside coating. 3M Scotchlite™ retro-reflective transferred bands.	Raincoat. Sealed seams. Fixed hood. Raglan sleeves. Fastening with zip under press stud flap. High visibility: Class 3 - Silver colour - Parallel assembly. 1 pocket under flap.	M/L/XL	x10

GILP4



GILP2



Article	Ref./Colours	Standard	Material	Description	Sizes	
GILP4	GILP40R Fluo orange	CE  EN471 2.2	Polyester fabric. Retro-reflective sewn bands.	Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	L/XXL	x10
	GILP4JA Fluo yellow					
GILP2	GILP20R Fluo orange			Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Parallel assembly.	L/XXL	x100
	GILP2JA Fluo yellow					



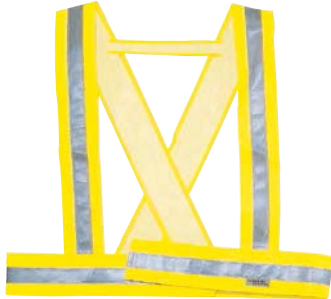
HIGH VISIBILITY

EXTRAS

BAUCE



3M Scotchlite™
Reflective Material



Article	Ref./Colours	Standard		Material	Description	Sizes	
BAUCE	BAUCEOR Fluo orange	CE	EN471 1.2	PVC-coated Oxford polyester fabric. 3M Scotchlite™ retro-reflective sewn bands.	Shoulder-belt. Fastening with velcro band. Belt and shoulder bands width: 7,5 cm. High visibility: Class 1 - Silver colour - Shoulder-belt assembly.	M	x10
	BAUCEJA Fluo yellow						

BRASSJA



3M Scotchlite™
Reflective Material



Article	Ref./Colours	Standard		Material	Description	Sizes	
BRASSJA	BRASSJA Fluo yellow	CE	EN13356	PVC-coated Oxford polyester fabric. 3M Scotchlite™ retro-reflective sewn bands.	Armlet. Fastening with velcro band. Dimensions: 9 cm x 50 cm High visibility - Silver colour.	ADJUSTABLE	x50

RUBANRB20





Article	Ref./Colours		Material	Description	
RUBANRB20	RUBANRB20 Red-White		Polyethylene.	Smoothed red and white signalling ribbon (200m x 70mm). Dispenser box.	x50



FEEDER



Article	Ref./Colours	Standard	Material	Description	Sizes	
FEEDER	FEEDOR Fluo orange	CE  EN471 2,2	75% polyester 35% cotton 200 g/m². Retro-reflective sewn bands.	Tee-shirt with short sleeves. Round collar. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	M/L/XL/XXL	 x10
	FEEDEJA Fluo yellow					

OFFSHORE



Article	Ref./Colours	Standard	Material	Description	Sizes	
OFFSHORE	OFFSHOR Fluo orange	CE  EN471 2,2	100% polyester stich 160 g/m². Retro-reflective sewn bands.	Polo with short sleeves. Collar with button fastening. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.	M/L/XL/XXL	 x10
	OFFSHJA Fluo yellow					



HIGH VISIBILITY

PANOSTYLE

PHVES



Article	Ref./Colours	Standard		Material	Description	Sizes	
PHVES	PHVESOM Fluo orange-Navy blue	CE	EN471 2,2	Twill 54% cotton 46% polyester 260 g/m². Retro-reflective sewn bands.	Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.	S/M/L/XL/ XXL/3XL	x10
	PHVESJM Fluo yellow-Navy blue						

PHPAN



Inside kneepad
pocket

PHBER



Article	Ref./Colours	Standard		Material	Description	Sizes	
PHPAN	PHPANOM Fluo orange-Navy blue	CE	EN471 2,2	Twill 54% cotton 46% polyester 260 g/m². Retro-reflective sewn bands.	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	S/M/L/XL/ XXL/3XL	x10
	PHPANJM Fluo yellow-Navy blue						
PHBER	PHBEROM Fluo orange-Navy blue	EN471 1,2			Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.		
	PHBERJM Fluo yellow-Navy blue						



MHVES




3M Scotchlite™
Reflective Material



Yokes for dirt resistance
MHVES - MHPAN



Article	Ref./Colours	Standard	Material	Description	Sizes	
MHVES	MHVESJA Fluo yellow-Grey	CE  EN471 3,2	Twill 60% cotton 40% polyester 270 g/m ² . 3M Scotchlite™ retro- reflective sewn bands.	Jacket. Raglan sleeves. Adjustable cuffs with press studs. High visibility: Class 3 - Silver colour - Parallel assembly. 5 pockets.	S/M/L/XL/ XXL/3XL	x10

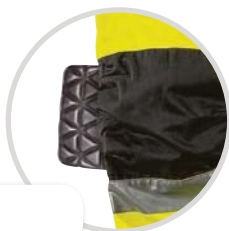
MHPAN



3M Scotchlite™
Reflective Material



Kneepad pockets



Article	Ref./Colours	Standard	Material	Description	Sizes	
MHPAN	MHPANJA Fluo yellow-Grey	CE  EN471 1,2	Twill 60% cotton 40% polyester 270 g/m ² . 3M Scotchlite™ retro- reflective sewn bands.	Trousers. Adjustable waist on both sides with buttons. Preformed knees. High visibility: Class 1 - Silver colour. 6 pockets including 1 ruler pocket.	S/M/L/XL/ XXL/3XL	x10



EPICEA 3



Ventilation back flap closed with velcro bands



Article	Ref./Colours	Standard		Material	Description	Sizes	
EPICEA 3	EPIC3VE Green-Orange	CE	EN381-11 CLASS 0	Twill 60% cotton 40% polyester 270 g/m ² . Polyester mesh lining with a cut resistant compound.	Cut resistant jacket. Fastening with zip. Adjustable cuffs with press studs. 2 pockets.	M/L/XL/XXL	x5

MELEZE 3



Pocket for ruler
MELEZE 3 - ERABLE 3



Back ventilation with zip
ERABLE 3 - MELEZE 3



Article	Ref./Colours	Standard		Material	Description	Sizes	
MELEZE 3	MELE3VE Green-Orange	CE	EN381-5 TYPE A CLASS 1	Twill 60% cotton 40% polyester 270 g/m ² . Polyester mesh lining with a cut resistant compound.	Cut resistant trousers. Adjustable elasti- cated waist with inside buttons on both sides. Bottom of legs with zip opening. Preformed knees. 6 pockets including 1 ruler.	M/L/XL/XXL	x5



DOUGLAS 3



Opening with zip

Decorative retro-reflective bands
DOUGLAS 3 - EPICEA 3 - MELEZE 3 - ERABLE 3



Article	Ref./Colours	Standard		Material	Description	Sizes	
DOUGLAS 3	DOUG3VE Green-Orange	CE	EN381-5 TYPE A CLASS 1	Twill 60% cotton 40% polyester 270 g/m ² . Polyester mesh lining with a cut resistant compound.	Cut resistant gaiters. Inside zip opening. Tightening strap with press studs. 1 pocket.	ONE SIZE	x5

ERABLE 3



Buttock reinforcement
Back reinforcement
MELEZE 3 - ERABLE 3



Article	Ref./Colours	Standard		Material	Description	Sizes	
ERABLE 3	ERAB3VE Green-Orange	CE	EN381-5 TYPE A CLASS 1	Twill 60% cotton 40% polyester 270 g/m ² . Polyester mesh lining with a cut resistant compound.	Cut resistant dungarees. Bottom of legs with zip opening. Preformed knees. Adjustable elasticated waist with buttons on both sidesAdjustable elasticated braces. 5 pockets including 1 ruler.	M/L/XL/XXL	x5



NORDLAND - ICEBERG

NORDLAND
p. 253



KARA
p. 229



HERCULE
p. 85



DEVON III S3 SRC
p. 304



ICEBERG
p. 253





KARA
p. 229

HERCULE
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NORDLAND
p. 253

ICEBERG
p. 253

DEVON III
p. 304



COLD STORAGE

EXTRAS

VISBY



Heat regulating
Light
Ergonomic shape



Article	Ref./Colours		Material	Description	Sizes	
VISBY	VISBYOR Orange-Grey		Bamboo/Polyester/Polypropylene. Flat seams.	Underwear set. Tee-shirt with long sleeves. Long johns.	S/M/L/XL/ XXL/3XL	x10
	VISBYGR Black-Grey					

ALMA



BALTIC



Article	Ref./Colours		Material	Description	Sizes	
ALMA	ALMABM Navy blue	CE	Polyester polar fleece 200 g/m ² .	Under sweater. Raglan sleeves. Collar with zip under storm flap. Can be worn next to the skin.	S/M/L/XL/ XXL/3XL	x10
	ALMANO Black					
BALTIC	BALTIBM Navy blue		Polyester polar fleece 100 g/m ² .	Light polyester polar fleece hood.	ONE SIZE	



NORDLAND



Inside cuff with a hole for thumb against wind



Decorative retro-reflective bands
NORDLAND - ICEBERG




Fixed badge holder included



EN342

Cold protection

Article	Ref./Colours	Standard	Material	Description	Sizes	
NORDLAND	NORDLGR Grey	CE  EN342 0,705 m ² .K/W (B) X.3.X	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	Parka. Waterproof seams. Removable hood. Collar with polar fleece lining. Fastening with double zip under press stud storm flap. Adjustable waist and bottom with elastic drawstring. 7 pockets.	S/M/L/XL/ XXL/3XL	x5



Higher back protection



Bottom of legs with storm flap




Pockets with waterproof zip



EN342

Cold protection

Article	Ref./Colours	Standard	Material	Description	Sizes	
ICEBERG	ICEBGR Grey	CE  EN342 0,705 m ² .K/W (B) X.3.X	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	Warm trousers. Waterproof seams. Adjustable waist with elastic drawstring. Adjustable braces. Preformed and reinforced knees. 5 pockets.	S/M/L/XL/ XXL/3XL	x5



COLD STORAGE

LAPONIE II



3M Thinsulate™ wadding
LAPONIE II - AUSTRAL II - IGL00 II




Knitted cuffs
LAPONIE II - IGL00 II



EN342

Cold protection

Article	Ref./Colours	Standard	Material	Description	Sizes	
LAPONIE II	LAP02BL Navy blue	CE  EN342 0,499m ² .K/W (B) 2.3	85% polyester 15% cotton cloth. Quilted polyester Taffeta lining with 3M Thinsulate™ wadding.	Parka. Removable hood with wadded 3M Thinsulate™ polar fleece lining. Collar with polar fleece lining. Fastening with zip with velcro storm flap. Elasticated waist at the back. 6 pockets.	M/L/XL/XXL	x5

AUSTRAL II




Higher back protection



EN342

Cold protection

Article	Ref./Colours	Standard	Material	Description	Sizes	
AUSTRAL II	AUST2BL Navy blue	CE  EN342 0,499 m ² .K/W (B) 2.3	85% polyester 15% cotton cloth. Quilted polyester Taffeta lining with 3M Thinsulate™ wadding.	Warm trousers. Adjustable elasticated braces. Bottoms of legs closed with zip under velcro flap. 4 pockets.	M/L/XL/XXL	x5



FEROE



3M Thinsulate™ lining



Article	Ref./Colours	Material	Description	Sizes	
FEROE	FEROEBC White	Quilted polyamide. Quilted polyamide Taffeta lining with 3M Thinsulate™ wadding.	Bodywarmer. Press studs fastening. 3 pockets.	S/M/L/XL/XXL	x10

IGLOO II



Ouate 3M Thinsulate™
LAPONIE II - AUSTRAL II - IGLOO II




Bottom of legs with gusset
IGLOO II – AUSTRAL II



EN342

Cold protection

Article	Ref./Colours	Standard	Material	Description	Sizes	
IGLOO II	IGLO2BL Navy blue	CE  EN342 0,468 m².K/W (B) 2.3	85% polyester 15% cotton cloth. Quilted polyester Taffeta lining with 3M Thinsulate™ wadding.	Overall. Removable hood with wadded 3M Thinsulate™ polar fleece lining. Collar with polar fleece lining. Fastening with zip under velcro storm flap. Elasticated waist at the back. Bottoms of legs closed with zip under Velcro flap. 5 pockets.	M/L/XL/XXL	x5



ANTI-ACID/FLAME RETARDANT/ANTISTATIC

TONGA 3

TONC3



50 washes at 75°C
TONV3 - TONP3 - TONC3



TONV3



TONP3



Article	Ref./Colours	Standard	Material	Description	Sizes	
TONC3	TONC3BM Navy blue	CE	60% Modacrylic 37% cotton 3% antistatic fibre 250 g/m ² .	Overalls. Straight collar closed with hidden press studs. Fastening with zip under press stud flap. Raglan sleeves. Elasticated waist at the back. Adjustable cuffs with hidden press studs. 4 pockets including 1 on leg.	S/M/L/XL/ XXL/3XL/4XL	x5
TONV3	TONV3BM Navy blue			Jacket. Straight collar closed by hidden press studs. Fastening with hidden press studs. Raglan sleeves. Adjustable cuffs with hidden press studs. Elasticated waist on both sides. 2 pockets.		
TONP3	TONP3BM Navy blue			Trousers. Fastening with hidden press studs. Elasticated waist on both sides. 4 pockets including 1 on leg.		



KOMODO



Polar fleece removable lining (CE CAT 1)
KOMODO - KOMODO HV



Knitted inside cuffs
KOMODO - KOMODO HV

KOMODOHV



Article	Ref./Colours	Standard	Material	Description	Sizes	
KOMODO	KOMODBM Navy blue	EN14116 1/25H/40 EN1149-5 EN13034 TYPE PB (6) EN343 3.2	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.	2 in 1 rain warm parka: Removable jacket. Parka :Waterproof seams. Fastening with zip under flap. Removable jacket :Zip fastening. Knitted cuffs. 3 pockets.	S/M/L/XL/ XXL/3XL/4XL	x5
KOMODOHV	KOMODHVJM Fluo yellow-Navy blue	CE EN14116 1/25H/40 EN1149-5 EN13034 TYPE PB (6) EN343 3.2 EN471 2.2		2 in 1 rain warm parka: Removable jacket. Parka :Waterproof seams. Fastening with zip under flap. High visibility: Class 2 - Silver colour - Parallel assembly. Removable jacket :Zip fastening. Knitted cuffs. 3 pockets.		

FLAME RETARDANT

MAICO



3M Scotchlite™
Reflective Material



High collar with velcro
band closing
MAIVE - MAICO

Preformed elbows
MAIVE - MAICO

50 washes at 60°C



Article	Ref./Colours	Standard	Material	Description	Sizes	
MAICO	MAICOOV Orange	CE EN14116 3/50/60	Twill 100% flame retardant cotton 310 g/m ² . 3M Scotchlite™ retro-reflective sewn bands.	Overalls with retro-reflective bands. High collar. Fastening with hidden press studs. Raglan sleeves. Half elasticated cuffs. Elasticated waist at the back. 7 pockets including 1 ruler pocket. 2 hand slits.	S/M/L/XL/ XXL/3XL/4XL	x5
	MAICOBV Blue					
	MAICORV Red					

CAGOULTI



MANCH2TI



Article	Ref./Colours	Standard	Material	Description	Sizes	
CAGOULTI	CAGOULTIBM Navy blue	CE EN14116 3/50/75	Twill 100% flame retardant cotton 310 g/m ² .	Hood. Adjustable toggle around the face. Flap covering the shoulders.	ONE SIZE	x50
MANCH2TI	MANCH2TIBM Navy blue		Twill 100% flame retardant cotton 310 g/m ² .	Cuff. Elasticated tightening at tips. Length: 40 cm.		



MAICO



MAIVE



High collar with velcro
band closing
MAIVE - MAICO





Pockets closed with velcro band
MAIVE - MAIPA - MAICO

MAIPA



50 washes at 75°C
MAIVE - MAIPA - MAICOBM



Article	Ref./Colours	Standard	Material	Description	Sizes	
MAICO	MAICOBM Navy blue	CE  EN14116 3/50/75  EN531 A,B1,C1,X,X	Twill 100% flame retardant cotton 310 g/m ² .	Overalls. High collar. Fastening with hidden press studs. Raglan sleeves. Half elasticated cuffs. Elasti- cated waist at the back. 7 pockets including 1 ruler pocket. 2 hand slits.	S/M/L/XL/ XXL/3XL/4XL	x5
MAIVE	MAIVEBM Navy blue			Jacket. High collar. Raglan sleeves. Half elasticated cuffs. 4 pockets including 2 inside pockets.		
MAIPA	MAIPABM Navy blue			Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler pocket.		

FLAME RETARDANT/ANTISTATIC

EXTRAS

CHEMISE FR



Article	Ref./Colours	Standard	Material	Description	Sizes	
CHEMISE FR	CHEFRBM Navy blue	EN14116 3/50/75 EN1149-5 EN531 A,B1,C1,X,X	Ripstop 55% Modacrylic/Staci-flam® 42% cotton 3% antistatic fibre 180 g/m².	Shirt with long sleeves. Fastening with hidden press studs. Cuffs closed with hidden press studs. 2 pockets.	S/M/L/XL/XXL/3XL/4XL	x10

VESTE FR



Article	Ref./Colours	Standard	Material	Description	Sizes	
VESTE FR	VESFRBM Navy blue	EN14116 3/12H/60 EN1149-5	Polar 60% Modacrylic 38% cotton 2% antistatic fibre 430 g/m².	Polar fleece jacket. 2 pockets.	S/M/L/XL/XXL/3XL/4XL	x10

POLO FR



Article	Ref./Colours	Standard	Material	Description	Sizes	
POLO FR	POLFRBM Navy blue	EN14116 3/12H/60 EN1149-5	Piqué stitch Modacrylic/Cotton Antistatic fibre 280 g/m².	Polo with long sleeves. Collar with hidden press studs.	S/M/L/XL/XXL/3XL/4XL	x10



CAGOULE 1 FR



CAGOULE 2 FR



Face flap

Article	Ref./Colours	Standard	Material	Description	Sizes	
CAGOULE 1 FR	CAFR1BM Navy blue	CE EN14116 3/12H/60 EN1149-5	50% Aramid knitwear 48% Viscose 2% Antistatic fibre 200 g/m ² .	Hood with flap covering shoulders.	ONE SIZE	x50
CAGOULE 2 FR	CAFR2BM Navy blue			Hood with face flap with velcro bands. Large flap covering shoulders.		

SOUS VETEMENT FR



Half finger cuff



CHAUSSETTE FR



Article	Ref./Colours	Standard	Material	Description	Sizes	
SOUS VETEMENT FR	SSVFRBM Navy blue	CE EN14116 3/12H/60 EN1149-5	50% Aramid knitwear 48% Viscose 2% Antistatic fibre 200 g/m ² .	Underwear set. Tee-shirt with long sleevesLong johns.	S/M/L/XL/ XXL/3XL/4XL	x10
CHAUSSETTE FR	CHAFRBM Navy blue		FR Viscose knitwear/Zirpro whool/ Polyamid.	Long socks. Flame retardant. (EN342 certified)		



PROTECTIVE APRONS

TABNIT



TABPU



Article	Ref./Colours		Material	Description	Sizes	
TABNIT	TABNIT White	CE	Nitrile/PVC.	Apron. Adjustment buckle on the neck. Dimensions: 115 cm x 90 cm. Thickness: 0,35 mm.	ONE SIZE	x50
TABPU	TABPU White		100% polyurethane 370 g/m².	Apron. Elasticated strap with hook. Adjustment buckle on the waist. Dimensions: 115 cm x 90 cm. Thickness: 0,30 mm.		x25

TABLIVE



TABALPV




Article	Ref./Colours		Material	Description	Sizes	
TABLIVE	TABLIVE Green		PVC-coated polyester support. Double sided coating.	Waterproof all-purpose apron. Drawstring straps. Dimensions: 110 cm x 75 cm. Thickness: 0,35 mm.	ONE SIZE	x50
TABALPV	TABALPV White		100% PVC.	Apron. Adjustment buckle on the neck. Dimensions: 120 cm x 90 cm. Thickness: 0,30 mm.		

PANTAB



VESTEB



Article	Ref./Colours	Standard	Material	Description	Sizes	
PANTAB	PANTAB Grey	CE  EN11611 TYPE A1 CLASS 2	Cowhide split leather. Kevlar® thread seams.	Welder trousers. Elastic belt with keepers. Fly closed with press studs under flap. Pockets with keepers on both sides.	M/L/XL	x10
VESTEB	VESTBCE Grey			Welder jacket. Fastening with Velcro under flap. Straight cuffs. Made-up long sleeves. Length: 73 cm.	54/58	

TASOUB



MANCHB



Article	Ref./Colours	Standard	Material	Description	Sizes	
TASOUB	TASOUBCE Grey	CE  EN11611 TYPE A1 CLASS 2	Cowhide split leather.	Welder apron with bib. Adjustment buckle on the neck. Sewn split leather strap with plastic bucklet. Dimensions: 90 cm x 60 cm. Thickness: 1,40 mm to 1,60 mm.	ONE SIZE	x50
MANCHB	MANCHB Grey			Welder cuff pair. Elasticated tightening at tips. Length: 40 cm.		







FOOT PROTECTION

HELP WITH CHOICE

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FOOT PROTECTION

TO FIND THE PRODUCT SUITABLE FOR YOUR JOB



	AGRICULTURE/ GREEN AREAS	CONSTRUCTION CIVIL ENGINEERING	SECOND WORK CRAFTSMAN	HEAVY INDUSTRY	LIGHT INDUSTRY	SERVICES LOGISTICS	HYGIENE ENVIRONMENT	Suitable protection	PAGES
PREMIUM								TREK WORK	268-269
								WATERPROOF	270-271
								X-RUN	272-273
EVOLUTION								OUTDOOR 2	274-275
								COMPOSITE TECH	276-277
								PRO ACTIVE	278-280
								SPORTSWEAR	282-284
								LIGHT WALKERS	286-289
								CITY	290-291
								LADY	292
ESSENTIAL								4 X 4 INDUSTRY	294-295
								X-LARGE INDUSTRY	296-297
								ESD	298-299
								AGRO	293
								CLASSIC +	300
								CLASSIC INDUSTRY	301-303
								WINTER BOOT	304-305
								RAIN BOOT	306

RANGES



	TREK WORK	WATERPROOF	X-RUN	OUTDOOR 2	COMPOSITE TECH		PRO ACTIVE	SPORTSWEAR
Material	PU / NITRILE RUBBER	PU / TPU	PU / RUBBER	PU / NITRILE RUBBER	PU / PU	PU / RUBBER	PU / PU	PU / RUBBER
Advantages	<ul style="list-style-type: none"> Ladder grips Flex-Zone for increased flexibility Slip-resistant cleated outsole 	<ul style="list-style-type: none"> 100% waterproof Freetex membrane TPU Back reinforcement for a high wear protection PU bumper protection TPU outsole for a good resistance to abrasion, hydrocarbons and cold <0°C Staples specially designed for an optimal traction and a best slip-resistance on all slippery surfaces 	<ul style="list-style-type: none"> Flex zones Anti slip rubber TPU foot arch reinforcement 	<ul style="list-style-type: none"> PANOFLEX® system, flex zones to facilitate the rolling of the foot Staples with grip on all indoor and outdoor surfaces and on slippery surfaces 	<ul style="list-style-type: none"> Lightness Comfort 		<ul style="list-style-type: none"> V STAB SYSTEM Lateral grip Flex zones 	<ul style="list-style-type: none"> PU midsole for effective cushioning Rubber outsole for improved abrasion resistance Strong flex area for metatarsals Crampon design specially designed for optimum grip
Performances	SRC HRO HI CI	SRC WR HI CI	SRC HRO	SRC HRO	SRC	SRC HRO	SRC	SRC HRO

HELP WITH CHOICE

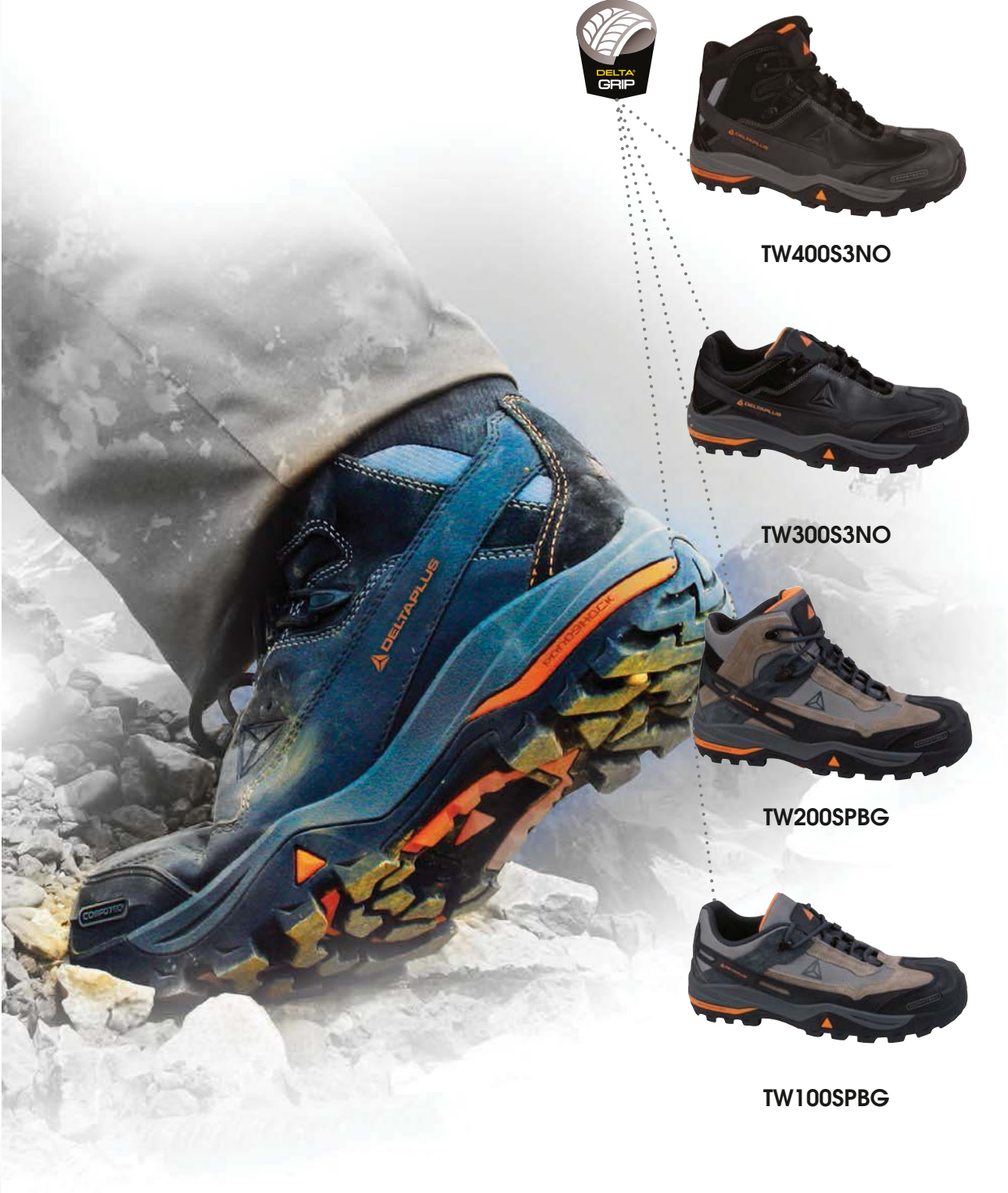



LIGHT WALKERS COMPOSITE	CITY	AGRO	4X4 INDUSTRY	X LARGE INDUSTRY	ESD	CLASSIC +	CLASSIC INDUSTRY
PU	PU MONO DENSITÉ	PU / PU	PANORUBBER® NITRILE RUBBER	PU / PU	PU / PU	PU / PU	PU / PU
<ul style="list-style-type: none"> • Step rolling • Rod Mesh / Suede leather for better foot ventilation 	<ul style="list-style-type: none"> • Non-metallic • Lightness and Flexibility • All uses 	<ul style="list-style-type: none"> • Microfibre upper 	<ul style="list-style-type: none"> • Slip resistance on all type of slippery surfaces • Oil resistances • Hydrolysis resistance • Heat resistance 	<ul style="list-style-type: none"> • Areas of integrated bending (PANOFLEX® system) • Shock absorber 	<ul style="list-style-type: none"> • ESD Qualification Class 1 (EN 61340-4-3) promoting the dissipation of electrostatic energy 	<ul style="list-style-type: none"> • Lifespan and comfort 	<ul style="list-style-type: none"> • Lifespan and comfort • JUMPER2 S3 FUR: PU resistant to -30°C
SRC	SRC	SRC	SRC HRO HI CI	SRC	SRC	SRC	SRC



TREK WORK

COMPOSITE



Article	Ref./Colours	Standard		Description	Sizes	
TW400 S3 SRC	TW400S3NO Black	CE	EN ISO 20345 HRO HI CI	Upper: Full grain leather. Lining: Polyamide Cambrelle absorbing. Insole: Removable preformed - Polyester on PU. Midsole: Cemented - PU with Panoshock® shock absorber. Outsole: Rubber Nitrile. Non metallic footwear.	39 to 48	x5
TW300 S3 SRC	TW300S3NO Black					
TW200 S1P SRC	TW200SPBG Beige-Grey			Upper: Suede split leather and polyamide. Lining: Polyamide absorbing. Insole: Removable preformed - Polyester on PU. Midsole: Cemented - PU with Panoshock® shock absorber. Outsole: Rubber Nitrile. Non metallic footwear.		
TW100 S1P SRC	TW100SPBG Beige-Grey					



Cambrelle lining
Absorbs perspiration
Quick drying, antibacterial



Speed lace



Reinforced toe protection :
Toe with Scuff Cap



Preformed and removable
insole : Polyester on PU.
Comfort and quick drying



PANOSHOCK® system
For reduced fatigue & added
comfort

**Composite
Protection**
NON-METALLIC



Composite toe cap 200-
joule, lighter than steel
Non conductive material



PU/RUBBER OUTSOLE
1- Ladder grips
2- Flex-Zone for
increased flexibility
3- Slip-resistant
cleated outsole



Ultra flexible anti-perforation
composite insole

The design and comfort of a trekking shoe with
high tech performance of a safety shoe.



WATERPROOF



COMPOSITE - 100% Waterproof membrane



NOMADS3MA



NOMADS3NO

Article	Ref./Colours	Standard	Description	Sizes	
NOMAD S3 SRC	NOMADS3MA Brown	 EN ISO 20345 WR HI CI	Upper: Buffalo cowhide leather with PU front reinforcement. Lining: Polyester. Insole: Removable, polyester on EVA. Midsole: Injected, PU. Outsole: TPU. Non metallic footwear.	39 to 48	x5
	NOMADS3NO Black				



Polyester lining for an excellent foot ventilation



Retro-reflective bands for higher visibility and better arch support



PU bumper protection



Back reinforcement for a high wear protection

Composite Protection
NON-METALLIC



Composite toe cap 200-joule, lighter than steel
Non conductive material



1- TPU outsole for a better abrasion resistance
2- Cleats with good grip on all surfaces



Ultra flexible anti-perforation composite insole

Protection with an innovative concept, combining waterproof and water repellent materials.



X-RUN

COMPOSITE



XR500S3BE




XR300SPGO



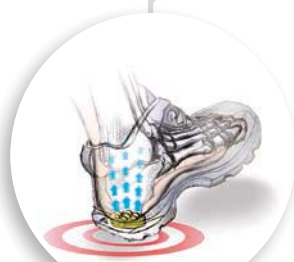
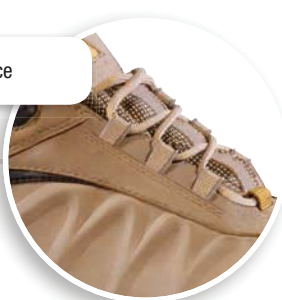
XR300SPGB



Article	Ref./Colours	Standard		Description	Sizes	
XR500 S3 SRC	XR500S3BE Beige	CE	EN ISO 20345 HRO	Upper: Full grain nubuck leather. Lining: Polyamide absorbing. Insole: Removable preformed - Polyamide on EVA. Midsole: Cemented - PU with shock absorber Panoshock®. Outsole: Rubber. Non metallic footwear.	39 to 47	x5
XR300 S1P SRC	XR300SPGO Grey-Orange XR300SPGB Grey-Blue			Upper: Suede split leather and nylon mesh 3D. Lining: Polyamide absorbing. Insole: Removable preformed - Polyamide on EVA. Midsole: Cemented - PU with shock absorber Panoshock®. Outsole: Rubber. Non metallic footwear.		



Speed lace



PANOSHOCK®
For reduced fatigue & added comfort



ARCH SUPPORT SYSTEM
Gives better stability
Torsion control

Composite Protection NON-METALLIC



Composite toe cap 200-joule, lighter than steel
Non conductive material



PU/RUBBER CEMENTED OUTSOLE
1- FLEX-ZONE
2- ANTISLIP RUBBER
3- TPU FOOT ARCH REINFORCEMENT



Ultra flexible anti-perforation
composite insole

At last, footwear with running shoe look for men at work.
With the X-RUN range from Delta Plus, there are no barriers between sport and safety.



OUTDOOR 2

COMPOSITE

The nature sports and walking shoe dedicated to safety. Comfortable, technical and performance, the shoes of OUTDOOR 2 range will take you far !

- PU / rubber sole used in the mountain shoe
- Comfort - Grip - Shock absorber - Reduction of shock waves

- 1- PANOFLEX system
Flex zones to facilitate the rolled of the foot
- 2- OUTSOLE
 - HRO contact heat resistance : 300° (1 min)
 - Cleats with grip on all indoor and outdoor surfaces
 - Standards SRC



Ultra flexible anti-perforation composite insole



NON-METALLIC
No metal part in the shoe



Composite toe cap 200- joule,
lighter than steel
Non conductive material

**Composite
Protection**

NON-METALLIC



AURIBEAU2 S1P SRC



PERTUIS2 S1P SRC



Article	Ref./Colours	Standard	Description	Sizes	
AURIBEAU2 S1P SRC	AURI2SPBE Beige	CE EN ISO 20345 HRO	Upper: Suede split leather and nylon. Lining: Polyester. Insole: Removable preformed - Polyester on EVA foam. Outsole: Cemented - PU / Rubber Nitrile. Non metallic footwear.	36 to 48	x5
PERTUIS2 S1P SRC	PERT2SPBE Beige				

OHIO2 S3 SRC



UTAH2 S3 SRC



Article	Ref./Colours	Standard	Description	Sizes	
OHIO2 S3 SRC	OHIO2S3NO Black	CE EN ISO 20345 HRO	Upper: Nubuck leather. Lining: Polyester. Insole: Removable preformed - Polyester on EVA foam. Outsole: Cemented - PU / Rubber Nitrile. Non metallic footwear.	36 to 48	x5
UTAH2 S3 SRC	UTAH2S3NO Black				



COMPOSITE TECH

COMPOSITE

Designed for the most demanding workers in terms of comfort.

LIGHT - ULTRA FLEXIBLE



SAGA



COMPOSITE TECH



Ultra flexible anti-perforation composite insole



NON-METALLIC
No metallic part in the shoe
Except SAGA



Composite toe cap 200- joule,
lighter than steel
Non conductive material

**Composite
Protection**

NON-METALLIC
except SAGA



CT600 S3 SRC





CT400 S1P SRC



CT300 S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
CT600 S3 SRC	CT600S3NO Black		EN ISO 20345	Upper: Full grain leather. Lining: Polyamide. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. Non-metallic footwear.	39 to 47	x5
CT400 S1P SRC	CT400SPNO Black			Upper: Suede split leather, polyamide and PU/polyester. Lining: Polyamide. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. Non-metallic footwear.		
CT300 S1P SRC	CT300SPNO Black					

SAGA S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
SAGA S1P SRC	SAGASPBE Beige	CE	EN ISO 20345 HRO	Upper: Leather nubuck. Lining: Polyester. Insole: Removable - polyester on EVA. Outsole: Cemented - PU/Rubber.	39 to 48	x5
	SAGASPNO Black					



PRO ACTIVE

COMPOSITE

A professional range combines resistance, comfort and lightness.

Cambrelle lining

Speed lace

1-Flex-Zone
2- V STAB SYSTEM
3- Ladder lateral grips

Ultra flexible anti-perforation
composite insole

NON-METALLIC
No metal part in the shoe
Except PRISM - PROTON

Composite toe cap 200 joule,
lighter than steel
Non conductive material

**Composite
Protection**

NON-METALLIC
Except PRISM - PROTON



PLANET S3 SRC



PLAYER S3 SRC



Article	Ref./Colours	Standard		Description	Sizes	
PLANET S3 SRC	PLANES3GO Grey-Orange	CE	EN ISO 20345	Upper: Pigmented split leather. Lining: Split leather and Cambrelle. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	39 to 47	x5
PLAYER S3 SRC	PLAYES3GO Grey-Orange					

PLATINE S3 SRC



PLATOON S3 SRC



Article	Ref./Colours	Standard		Description	Sizes	
PLATINE S3 SRC	PLATIS3NO Black-Orange	CE	EN ISO 20345	Upper: Pigmented split leather. Lining: Split leather and Cambrelle. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	39 to 47	x5
PLATOON S3 SRC	PLATOS3NO Black-Orange					



PRO ACTIVE

COMPOSITE

PLATINE S1P SRC



PLATOON S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
PLATINE S1P SRC	PLATISPNJ Black-Yellow	CE	EN ISO 20345	Upper: Pigmented split leather. Lining: Split leather and Cambrelle. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	39 to 47	x5
PLATOON S1P SRC	PLATOSPNJ Black-Yellow					

PROTON S1P SRC



PRISM S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
PROTON S1P SRC	PROTOSPNO Black	CE	EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	39 to 47	x5
PRISM S1P SRC	PRISMSPNO Black					



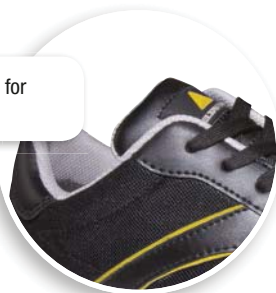
SPORTSWEAR

COMPOSITE

A Sport attitude for many professional activities.



Padded collar and tongue for greater comfort



Very light

PU/RUBBER OUTSOLE

- 1- PU midsole for greater shock absorber
- 2- Rubber outsole for better abrasion resistance
- 3- Specific outsole design for an optimal grip (SRC standard)
- 4- HRO



Insole in EVA for more comfort all day



Ultra flexible anti-perforation composite insole



NON-METALLIC
No metal part in the shoe



Composite toe cap 200 joule,
lighter than steel
Non conductive material

Composite Protection

NON-METALLIC



D-SPIRIT S1P



Article	Ref./Colours	Standard		Description	Sizes	
D-SPIRIT S1P	DSPIRSPBE Beige	CE	EN ISO 20345 HRO	Upper: Suede split leather (Black colour: Full grain leather/mesh). Lining: Polyester. Insole: Fixed - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 to 47 (Beige-grey 36 to 47)	x5
	DSPIRSPBG Blue-Grey					
	DSPIRSPNO Black					

D-SPIRIT S3



Article	Ref./Colours	Standard		Description	Sizes	
D-SPIRIT S3	DSPIRS3MA Brown	CE	EN ISO 20345 HRO	Upper: Full grain leather. Lining: Polyester. Insole: Fixed - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 to 47 (Brown) 36 to 47 (Black)	x5
	DSPIRS3NO Black					



SPORTSWEAR

COMPOSITE

D-STAR S1P



Article	Ref./Colours	Standard		Description	Sizes	
D-STAR S1P	DSTARSPBE Beige	CE	EN ISO 20345 HRO	Upper: Suede split leather. Lining: Polyester. Insole: Fixed - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 to 47	x5

D-STAR S3



Article	Ref./Colours	Standard		Description	Sizes	
D-STAR S3	DSTAR3NO Black	CE	EN ISO 20345 HRO	Upper: Full grain leather. Lining: Polyester. Insole: Fixed - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 to 47	x5



LIGHT WALKERS

COMPOSITE

A lightweight and ventilated system make these shoes particularly suitable for professional activities requiring comfort.



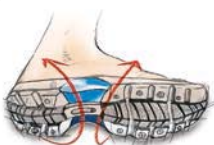
Breathable



- 1- Flex zones
PANOFLEX® system
to facilitate the rolled of the foot
- 2- Lateral grip
- 3- Step rolling to facilitate the walk



DUAL DENSITY PU OUT-SOLE
HIGH FLEXIBILITY



ARCH SUPPORT SYSTEM
Gives better stability



Ultra flexible anti-perforation
composite insole



Composite toe cap 200- joule,
lighter than steel
Non conductive material

**Composite
Protection**

NON-METALLIC



VIAGI S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
VIAGI S1P SRC	VIAGISPBO Beige-Orange	CE	EN ISO 20345	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 to 48 (Brown-red 39 to 48)	x10
	VIAGISPGV Grey-Green					
	VIAGISPNR Black-Red					
	VIAGISPTR Brown-Red					

VIRAGE S1P SRC




Article	Ref./Colours	Standard		Description	Sizes	
VIRAGE S1P SRC	VIRAGSPGV Grey-Green	CE	EN ISO 20345	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 to 48	x10
	VIRAGSPNR Black-Red					



LIGHT WALKERS

RIMINI II S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
RIMINI II S1P SRC	RIMI2SPBG Beige-Grey	CE	EN ISO 20345	Upper: Suede split leather and nylon mesh (breathable). Lining: Polyamide absorbing. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	36 to 47 (Beige-grey 39 to 47)	x10
	RIMI2SPGB Grey-Navy blue					
	RIMI2SPGN Grey-Black					



The stylish multi-purpose safety shoe.

Padded collar and tongue for greater comfort

Quick lace

Very flexible leather
Very light : 470 g
for each foot and
AERATED

SRC outsole
for multiple-use on all
types of hard floors
inside or outside

Ultra flexible anti-perforation
composite midsole

NON-METALLIC
No metallic part in the shoe

Composite toe cap 20- joule,
lighter than steel
Non conductive material

**Composite
Protection**

NON-METALLIC



SUPERVISER S3



STRATEGY S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
SUPERVISER S3	SUPERS3NO Black	CE	EN ISO 20345	Upper: Leather. Lining: Polyester. Insole: Removable, polyester on EVA. Outsole: Cemented – Mono density PU. Non-metallic footwear.	37 to 47	x5
STRATEGY S1P SRC	STRATSPNO Black			Upper: Leather. Lining: Polyester. Insole: Removable, polyester on EVA. Outsole: Cemented – Mono density PU. Non-metallic footwear.		

BIG BOSS S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
BIG BOSS S1P SRC	BIGBOSPNO Black	CE	EN ISO 20345	Upper: Leather and mesh. Lining: Polyester. Insole: Removable, polyester on EVA. Outsole: Cemented – Mono density PU. Non-metallic footwear.	37 to 47	x5



ANTIBES S1 SRC



FEMALE LAST

Female last has been researched to give real comfort and appeal in a shoe for women
ANTIBES - CANNES

SHOCK ABSORBER

PANOSHOCK® shockwave reducer
ANTIBES - CANNES

Article	Ref./Colours	Standard	Description	Sizes	
ANTIBES S1 SRC	ANTIBS1GB Grey-Blue	CE EN ISO 20345	Upper: Suede split leather and nylon mesh (breathable). Lining: Polyamide. Insole: Preformed - Polyamide on EVA with arch foot support. Midsole: Cemented - Phylon with shock absorber Panoshock®. Outsole: Rubber.	35 to 41	x5

CANNES S2 SRC



GRIP










Rubber : more resistance to slip on greasy, oily or liquid surfaces
ANTIBES - CANNES

COMFORT

Sport shoe technology : Midsole in Phylon (material used for jogging), lightness, comfort and flexibility
ANTIBES - CANNES

Article	Ref./Colours	Standard	Description	Sizes	
CANNES S2 SRC	CANNES2NO Black-Red	CE EN ISO 20345	Upper: Full grain leather. Lining: Polyamide. Insole: Preformed - Polyamide on EVA with arch foot support. Midsole: Cemented - Phylon with shock absorber Panoshock®. Outsole: Rubber.	35 to 41	x5



Article	Ref./Colours	Standard	Description	Sizes	
A G R O					
ROBION3 S2 SRC 	ROBI3S2BC White	CE EN ISO 20345	Upper: Microfibre. Lining: Polyamide. Insole: Preformed removable - Polyester on EVA. Outsole: Injected - PU bi-density. <ul style="list-style-type: none">• Water resistant upper in microfibre• Machine wash up to 30° C, easy to maintain• Absorbent non woven lining for quick dry ROBION 3 - MAUBEC 3   	35 to 47	x5
MAUBEC3 SBEA SRC 	MAUB3SBBC White	CE EN ISO 20345	Upper: Split leather with PU coating. Lining: Polyester. Insole: Preformed removable - Polyester on EVA. Outsole: Injected - Mono-density PU.   	35 to 47	x5



4X4 INDUSTRY

Exclusive Panorubber® outsole providing resistance to hydrolysis and protection from heat and cold.
The products of 4x4 INDUSTRY range meet the requirements of the petrochemical industry and construction.

Reinforced toe protection :
Toe with coated leather
scuffcap
Except LANTANA – NAVARA



1- SLIP RESISTANCE
Rubber outsole SRC standard
Slip resistance on all type of slippery floor
2- OIL RESISTANCE
Rubber/Nitrile outsole
3- RESISTANCE TO HYDROLYSIS
The material remains stable and keeps its shapes during variations in temperature and humidity
4- HEAT RESISTANCE
• HRO standard :
300° Contact-heat resistant sole assembly (1 mins)
• HI standard :
Isolation of the foot in the shoe against the heat.
Raising the temperature does not exceed 22°C after 30 mins in a sand bath at 150°C

PANORUBBER® OUTSOLE



Ultra flexible anti-perforation
composite insole
Except LANTANA - NAVARA -
KORANDA



NON-METALLIC
No metallic part in the shoe
Except LANTANA - NAVARA -
KORANDA



Composite toe cap 200 j,
lighter than steel
Non conductive material
Except LANTANA - NAVARA -
KORANDA

**Composite
Protection**

NON-METALLIC
Except
LANTANA - NAVARA - KORANDA



FRONTERA S3 SRC



KORANDA S3 SRC



Article	Ref./Colours	Standard		Description	Sizes	
FRONTERA S3 SRC	FRONTS3MA Brown	CE	EN ISO 20345 HRO HI CI	Upper: Full grain leather with TPU toe cap. Lining: Polyamide Cambrelle absorbing. Insole: Removable preformed - Polyamide Cambrelle on EVA. Midsole: Injected - Panorubber®. Outsole: Rubber Nitrile.	36 to 48	x5
KORANDA S3 SRC	KORANS3NO Black			Upper: Buffalo pigmented split leather with TPU toe cap. Lining: Polyamide absorbing. Insole: Removable - Polyamide on EVA. Midsole: Injected - Panorubber®. Outsole: Rubber Nitrile.		

LANTANA S1P SRC



NAVARA S1P SRC



Article	Ref./Colours	Standard		Description	Sizes	
LANTANA S1P SRC	LANTASPNO Black	CE	EN ISO 20345 HRO HI CI	Upper: Buffalo pigmented split leather. Lining: Polyamide absorbing. Insole: Removable - Polyamide on EVA. Midsole: Injected - Panorubber®. Outsole: Rubber Nitrile.	36 to 48	x5
NAVARA S1P SRC	NAVARSPNO Black					



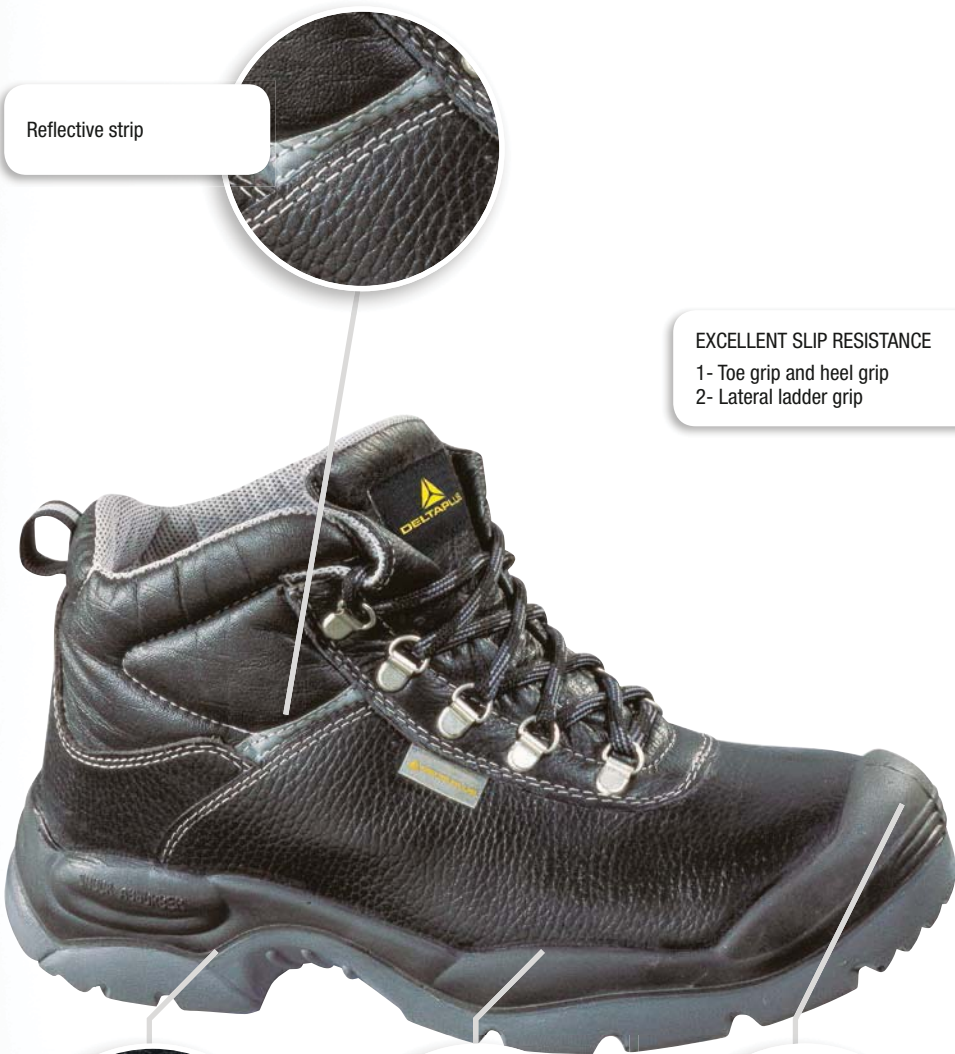
X-LARGE INDUSTRY

Symbol of comfort, protection and durability, the X-LARGE INDUSTRY range meets the toughest working environments.

Reflective strip

EXCELLENT SLIP RESISTANCE

- 1- Toe grip and heel grip
- 2- Lateral ladder grip



SHOCK ABSORBER
Dual density PU outsole



GREAT COMFORT (wider fitting)
Last and toe size 11



REINFORCED TOE PROTECTION
Toe with PU cover (Bump cap system)



ANTIFATIGUE SOLE
Integrated flexing zone (PANOFLEX® system)



CADEROUSSE S3 SRC



CADEROUSSE





SAULT S3 SRC



MONTBRUN S3 SRC



Article	Ref./Colours	Standard		Description	Sizes	
CADEROUSSE S3 SRC	CADERS3NO Black		EN ISO 20345 CI	Upper: Full grain leather. Lining: Acrylic furlined. Insole: Preformed removable - Felt. Outsole: Injected - Dual-density PU with bump cap.	39 to 48	x5
SAULT S3 SRC	SAULTS3NO Black		EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 to 48	
MONTBRUN S3 SRC	MONTBS3NO Black					

CAROMB S1P SRC



MAZAN S1P SRC




Article	Ref./Colours	Standard	Description	Sizes	
CAROMB S1P SRC	CAROMSPGB Grey-Blue	CE EN ISO 20345	Upper: Suede split leather and polyamide nylon. Lining: Polyamide. Insole: Preformed removable - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 to 48	x5
MAZAN S1P SRC	MAZANSPGB Grey-Blue			39 to 48	



What does the regulation say?

Areas with potentially explosive atmospheres called **ATEX** and the protection of workers against the risks of explosion are regulated by 1999/92/EC Directive.

The use of  qualified footwear dissipating electrostatic charges, is recommended in these areas as part of a comprehensive system of prevention of explosion risk.

Requirements for the design, implementation of systems controlling electrostatic discharge (ESD) that can damage electronic components are defined by the EN61340-5-1 standard.

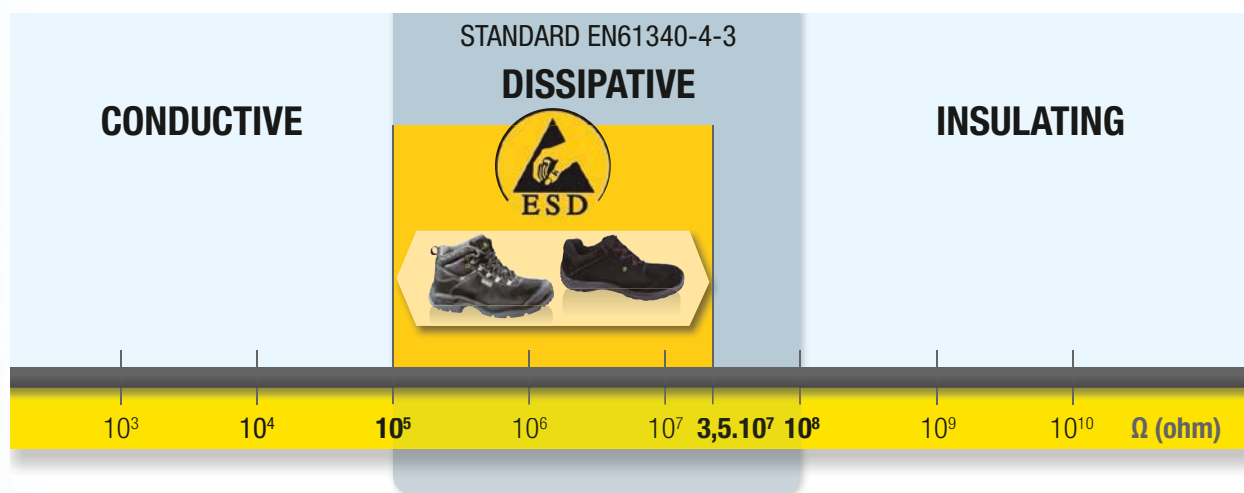
The device said ESD must offer resistance between $10^5 \Omega$ and $3.5 \cdot 10^7 \Omega$.

To be used in an ESD system, a shoe must at least be qualified according to EN61340-4-3 standard and offer resistance less than $10^8 \Omega$ (and greater than $10^5 \Omega$), it is then dissipative.

SAULT ESD and VIAGI ESD perform particularly well because they have not only reached a maximum resistance between 10^5 and $3.5 \cdot 10^7$ (single ohm), but **these tests were conducted under severe restraints: the climatic environment class number 1 (high drought: 15% humidity rate).**

Due to their low resistance level, **SAULT ESD** and **VIAGI ESD** are a particularly efficient part of global grounding system (gloves, clothing, carpet, seat, etc ...).

Thus, their performances help this system to achieve the level of resistance required for  compliance.



RISK OF ELECTROSTATIC DISCHARGE (ESD*)

The static electricity on the operators must be controlled in the following application areas, because it can:



- > generate electrostatic sparks that can ignite explosive atmospheres: plastic industry, mining, oil and gas industry, chemical industry ...
- > damage sensitive equipment against electric shock: various electronic industries ...
- > generate particles that may be deposited on the painting: car industry, house appliances ...

* Electrostatic Discharge



SAULT S3 SRC ESD



Article	Ref./Colours	Standard	Description	Sizes	
SAULT S3 SRC ESD	SAULTE3NO Black	CE EN ISO 20345 EN61340-4-3 CLASS 1	Upper: Pigmented split leather. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 to 48	x5






VIAGI S1P SRC ESD











Article	Ref./Colours	Standard	Description	Sizes	
VIAGI S1P SRC ESD	VIAGIEPNR Black-Red	CE EN ISO 20345 EN61340-4-3 CLASS 1	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 to 48	x10



CLASSIC +







Article	Ref./Colours	Standard	Description	Sizes	
GARGAS II S1P SRC 	GARG2SPN0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide absorbing. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	35 to 48	x10
GOULT II S1P SRC 	GOUL2SPN0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide absorbing. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	35 to 48	x10









Article	Ref./Colours	Standard	Description	Sizes	
C L A S S I C I N D U S T R Y					
COBRA II S1P SRC 	COBR2N0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Split leather and Cambrelle. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. • Kevlar® seams • Flap 	36 to 47	x10
VOYAGER S1P SRC 	VOYAGSPGB Grey-Blue	CE EN ISO 20345	Upper: Suede split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5
MIRAGE S1P SRC 	MIRAGSPGB Grey-Blue	CE EN ISO 20345	Upper: Suede split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 47	x10
FENNEC II S1 SRC 	FENN2GR Grey FENN2PGR Grey	CE EN ISO 20345	Upper: Suede split leather. Lining: Polyamide absorbing. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.  FENNEC II S1P	36 to 47	x10
FENNEC II S1P SRC					



CLASSIC INDUSTRY

Article	Ref./Colours	Standard	Description	Sizes	
JUMPER2 S3 FUR SRC 	JUMP2S3FENO Black	CE EN ISO 20345 CI	Upper: Pigmented split leather. Lining: furlined polyester. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. • Outsole with special PU material resistant to -30°C 	36 to 45 46 to 47	x10 x5
JUMPER2 S3 SRC 	JUMP2S3NO Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5
JET2 S3 SRC 	JET2S3NO Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5





Article	Ref./Colours	Standard	Description	Sizes	
JUMPER2 S1P SRC 	JUMP2SPN0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5
JET2 S1P SRC 	JET2SPN0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5
JUMPER2 S1 SRC 	JUMP2S1N0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5
JET2 S1 SRC 	JET2S1N0 Black	CE EN ISO 20345	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU. 	36 to 45 46 to 47	x10 x5



WINTER BOOT

Article	Ref./Colours	Standard	Description	Sizes	
BEAR III S3 SRC 	BEAR3S3MA Brown	CE EN ISO 20345 CI	Upper: Pigmented split leather. Lining: Acrylic furlined. Insole: Removable acrylic furlined. Outsole: Injected - Dual-density PU. 	39 to 47	x5
DEVON III S3 SRC 	DEV03S3NO Black	CE EN ISO 20345 CI	Upper: Pigmented split leather. Lining: Acrylic furlined. Insole: Removable acrylic furlined. Outsole: Injected - Dual-density PU. 	39 to 47	x5
CADEROUSSE S3 SRC 	CADERS3NO Black	CE EN ISO 20345 CI	Upper: Full grain leather. Lining: Acrylic furlined. Insole: Preformed removable - Felt. Outsole: Injected - Dual-density PU with bump cap. 	39 to 48	x5



Article	Ref./Colours	Standard	Description	Sizes	
MORNAS SRC 	MORNAVE Green	CE EN ISO 20347 OB E CI	Bi-injection PVC boot. Collar: PU. Lining: Polyester furlined. Outsole: PVC with cleats. 	39 to 47	x6
ECRINS S5 SRC 	ECRINNO Black	CE EN ISO 20345 CI	Safety boots. Upper: Bi-injection PVC. Lining: Polyester furlined. Insole: Fixe with aluminium protection. Sole: PVC - Nitrile with cleats - Steel S5 sole / easy put on with band. 	39 to 47	x5
LAUTARET2 	LAUT2NO Black		Canadian fur-lined winter boots. Lining: 100% polyester. Upper: Polyamide with Teflon®-treated. Sole and front: Thermoplastic (keeps is property until -30°C). • NON SAFETY BOOTS 	38 to 47	x5



RAIN BOOT

Article	Ref./Colours	Standard	Description	Sizes	
GIGNAC2 S5 SRC 	GIGN2VE Green	CE EN ISO 20345	Safety boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Sole: PVC - Nitrile with cleats - Steel S5. 	39 to 47	x5
VIENS2 S4 SRC 	VIEN2BL White	CE EN ISO 20345	Safety boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Outsole: PVC - Nitrile with staples. 	36 to 47	x5
JAVON 2 E 	JAVO2VE Green	CE EN347-1	Working half-boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Sole: PVC with cleats. 	39 to 47	x6
JOUCAS2 SRC 	JOUC2VE Green	CE EN ISO 20347 OB E	Working boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Sole: PVC with cleats. 	39 to 47	x6



Article	Ref./Colours	Standard	Description	Sizes	
A C C E S S O R I E S					
PRATO 	PRATOVE Kaki-Black		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	x100
	PRATONO Black-Grey				
CHAUSSETT 	CHAUSSETT Champagne		Acrylic fleeced socks for boots.	ONE SIZE	x50
CHAUSSON 	CHAUSO Grey		100% polyester Isothermic slipper. Rubber band ankle support - width 22 mm.	38/39 to 46/47	x50
LACETS XL 	LACETXL Black		Round polyamide laces. Length: 100 cm.		x500
	22180 Black		Round polyamide laces. Length: 120 cm.		
LACETS 22180					
SEMELLE 	45400 Black		Spare soles. Polyamide.	35/36 to 47/48	x350





FALL PROTECTION

HELP WITH CHOICE

310

Body support

Fall arrest harnesses p. 316

Fall protection sets p. 326

Fall arresters

Energy absorbing lanyards p. 330

Retractable fall arresters p. 334

Fall arrest on flexible anchorage line p. 338

Fall arrest on flexible/ rigid anchorage line p. 342

Spiderline II® p. 344

Anchorage / work positioning

Work positioning systems p. 324

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Lanyards p. 348

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Suspension

Rope access work p. 352

Rescue

Fall arrest and rescue, confined space p. 354

Rescue & evacuation p. 356





FALL PROTECTION SYSTEMS

FALL ARREST



FULL BODY HARNESSES



EN361



EN361



EN361



EN361 + EN358



FALL ARREST

SELF RETRACTABLE FALL ARRESTER



EN360



EN360



EN353-1



EN353-2

ENERGY ABSORBING LANYARDS



EN355



EN355



ANCHORAGE



EN362



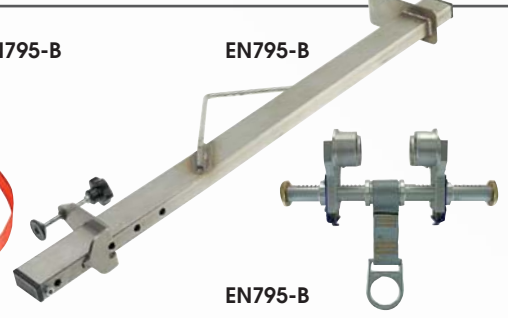
EN795-A



EN795-A



EN795-B



EN795-B

EN795-B

RESCUE AND SUSPENSION HARNESSES



EN1498-B



EN361 + EN358

RESTRAINT SYSTEMS



EN358



EN358



EN341



EN341



EN587



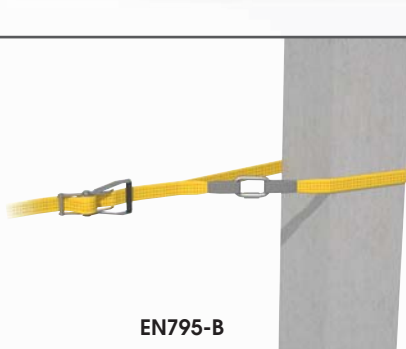
EN358



EN358



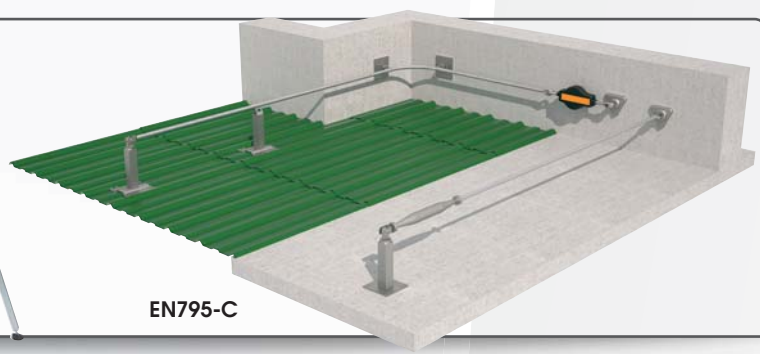
EN354



EN795-B



EN795-B



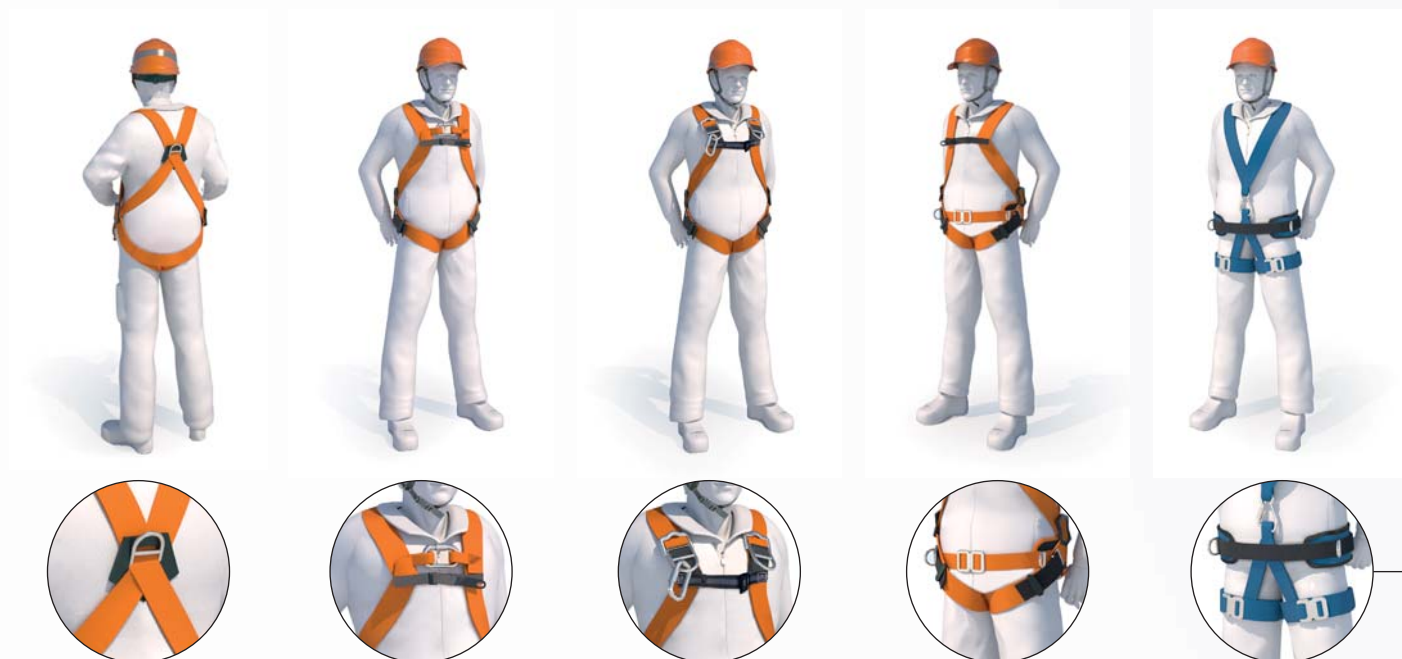
EN795-C





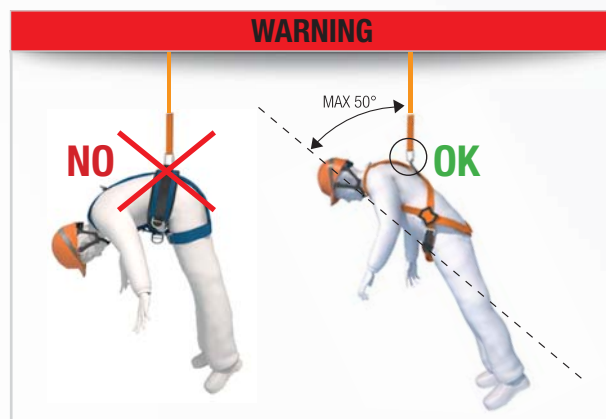
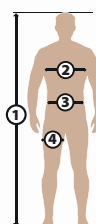
HARNESSES

CHOOSING YOUR HARNESS



CHOOSING YOUR SIZE

REF	SIZES	1	2	3	4
GT	S-M-L	<195 cm	<110 cm	<115 cm	<65 cm
XX	XL-XXL	>190 cm	>105 cm	>110 cm	>60 cm



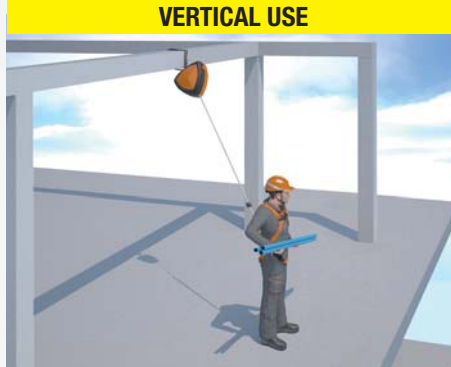
DONNING A HARNESS



FALL ARREST

SELF RETRACTABLE FALL ARRESTER

VERTICAL USE



HORIZONTAL USE



TEMPORARY AND PERMANENT LIFELINES

FLEXIBLE



RIGID

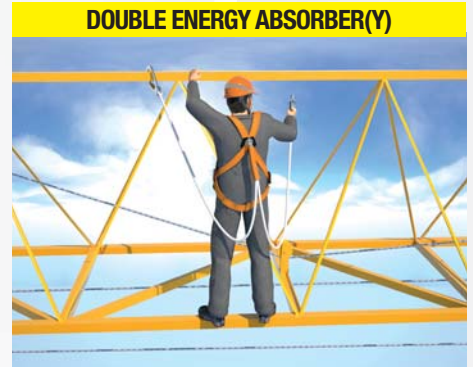


ENERGY ABSORBER

ENERGY ABSORBER

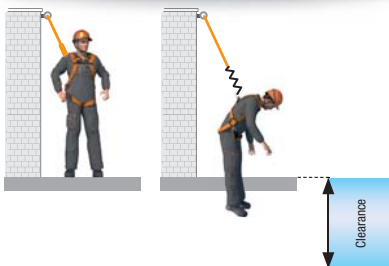


DOUBLE ENERGY ABSORBER(Y)

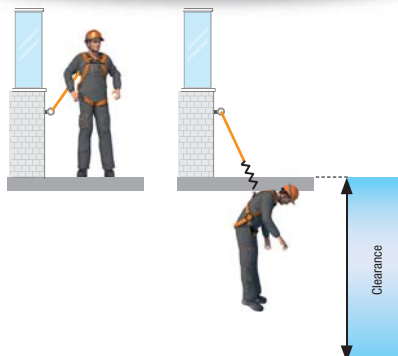


CLEARANCE

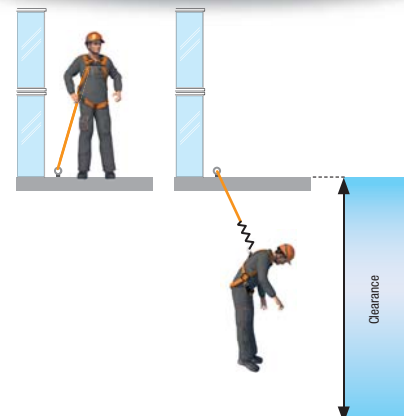
FALL FACTOR 0



FALL FACTOR 1



FALL FACTOR 2





AFTER SALES SERVICE

MANDATORY GENERAL ANNUAL INSPECTION

EN365

Instructions for periodic inspections shall include inter alia:

- 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 be carried out by a competent person in strict compliance with the manufacturer periodic inspection procedures.



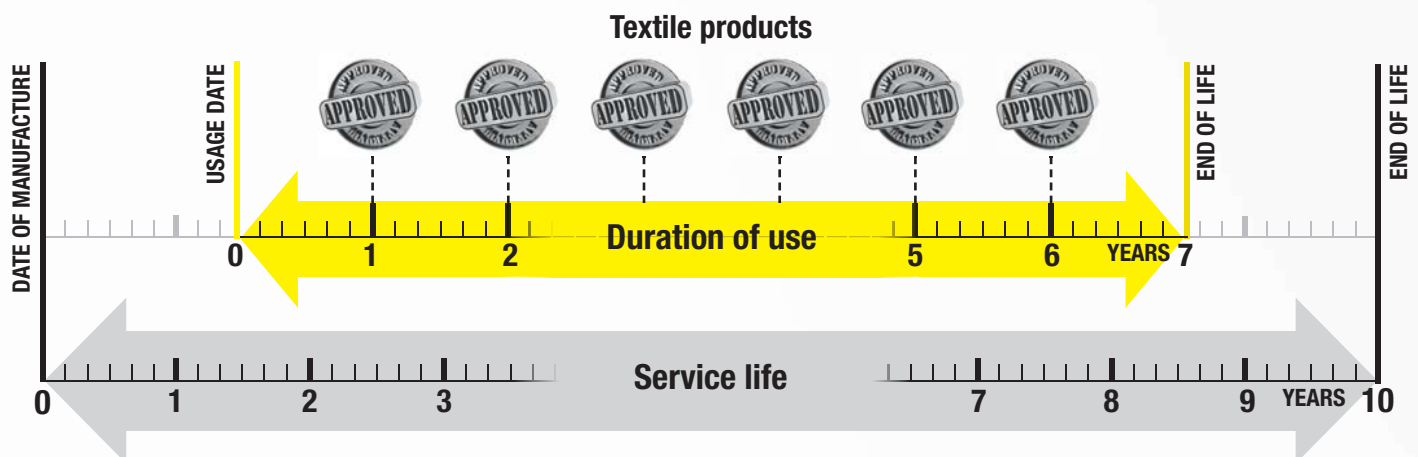
10 years

Up to 10 years from the date of manufacture or 7 years from the usage date for textile PPE



20 years

Up to 20 years from the date of manufacture for metallic PPE



VISUAL INSPECTION FOR:

Harnesses, belts, lanyards, ropes, energy absorbers, non removable reels (e.g. AN102), connectors, components of our kits (except ELARA270), temporary anchors (tripod, LV201 ...)

MECHANICAL INSPECTION FOR:

Removable reels, rescue equipment (e.g. TC013)



HOW TO SCHEDULE THE ANNUAL INSPECTION

Label on the product with the next date



Register on the site www.deltaplus.eu



Or:

- Schedule by the user
- Schedule by the employer
- Label on the storage area of the product
- Use the following organisations for the scheduling:
 - the dealer
 - the Delta Plus manufacturer
 - the Service Center



EN365

USERS: «It is essential that staff are **trained**, that their competence is controlled and they have written instructions enabling them to choose, use, maintain and periodically revise the PPE or other equipment.»

AUDITORS: «A competent person has to be trained by the manufacturer (i.e.) significant security related knowledge necessary for the disassembly, reassembly, or evaluation of PPE or other equipment.»

TRAINING IS INDISPENSABLE:

It allows:

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

OUR TRAINING OFFER:

12 training modules adapted to different audiences: users, distributors, technical inspection services and repair.



DPG
Training



LOCAL AFTER SALES SERVICES

Network of service centres



Info on www.deltaplus.eu



Training centres www.dpgtraining.com





BODY SUPPORT

WAILY HAR36TC



Comfortable thanks to
comfort pad

Ideal working position
thanks to the semi rigid
harness seat




Article	Ref./Colours	Standard		Description	Sizes/ Length		
WAILY HAR36TC	HAR36TCGT	CE	EN361 EN358	Harness with belt and work harness seat: 2 fall arrester anchorage points (back - front). Positioning belt with thermoformed back and legs. 2 work positioning attachment points (lateral). Harness seat with two suspension points. 5 adjustable buckles of which 3 are automatic	S/M/L	2,4 kg	x5
	HAR36TCXX				XL/XXL		

FAL ARREST AND SUSPENSION HARNESSSES

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

GALAGO HAR35TC



Article	Ref./Colours	Standard	Description	Sizes/Length		
GALAGO HAR35TC	HAR35TCGT	 EN361 EN358 EN813	Two colour harness with belt: 2 fall arrester anchorage points (back - front). Positioning belt with thermoformed back and shorts. 2 work positioning attachment points (lateral). 1 suspension point. 8 adjustable buckles. 1 carabiner.	S/M/L	1,9 kg	x5
	HAR35TCXX			XL/XXL		

BODY SUPPORT

EOLIEN HAR35





Soft padding on the shoulders and straps on the legs
Removable back protector

Fall indicator

Rotation 120°
2 accessory attachment holders incorporated into the belt

Pocket for phone or fall detector carrier

Article	Ref./Colours	Standard		Description	Sizes/Length		
EOLIEN HAR35	HAR35GT	CE	EN361 EN358	Two colour harness with positioning belt. 3 fall arrester attachment points (back- front right side - front left side). 4 adjustable buckles in light alloy. 2 automatic buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 120° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.	S/M/L	2 kg	x5
	HAR35XX				XL/XXL		

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

ANATOM HAR32



Soft padding on the shoulders and straps on the legs

Fall indicator

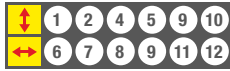
Pocket for phone or fall detector carrier

Article	Ref./Colours	Standard	Description	Sizes/Length	Weight	Quantity
ANATOM HAR32	HAR32GT	CE EN361	Two colour harness. 2 fall arrester anchorage points (back - front). 8 adjustable buckles.	S/M/L	1,4 kg	x5
	HAR32XX			XL/XXL		



BODY SUPPORT

HAR24



"Riplight System II®"



Fall indicator

Rotation 120°
2 accessory attachment holders incorporated into the belt




Article	Ref./Colours	Standard	Description	Sizes/Length	Weight	Quantity
HAR24	HAR24GT	CE EN361 EN358	Harness with extensible "Riplight System II®" patented waves. 2 fall arrester anchorage points (back - front). 4 adjustable buckles with positioning belt at 120° rotation. Large thermoformed back with sponge lining. 2 lateral anchorage points for work positioning.	S/M/L	1,8 kg	x5

HAR22



EX220



Article	Ref./Colours	Standard	Description	Sizes/ Length			
HAR22	HAR22GT	 EN361	Elasticated harness with extensible "Riplight System II ®" patented waves. 2 fall arrester anchorage points (back - front). 4 adjustable buckles.	S/M/L	1 kg	x5	
EX220	EX220XX		EN358	Positioning belt with thermoformed back closed with wide Velcro for more comfort. 120° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.	XL/XXL		0,8 kg
	EX220GT				S/M/L		

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

HAR23GILNO



"Riplight System II®"

Fall indicator

Article	Ref./Colours	Standard	Description	Sizes/ Length		
HAR23GILNO	HAR23GILNOGT	CE EN361	Extensible harness with work vest not removable : Harness (Ref. HAR23). Vest: Polyester, Cordura® and 3D knitting. Zip closure. 2 zip pockets. HV retro-reflective side bands. Size adjustable with side cords.	S/M/L	1,8 kg	x5

HAR23



"Riplight System II®"

Fall indicator

Article	Ref./Colours	Standard	Description	Sizes/ Length		
HAR23	HAR23GT	CE EN361	Elasticated harness with extensible "Riplight System II®" patented waves. 3 fall arrester attachment points (back- right front side - left front side). 4 adjustable buckles.	S/M/L	1,3 kg	x5



BODY SUPPORT

Article	Ref./Colours	Standard	Description		
HAR14 	HAR14GT	CE EN361 EN358	2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable lateral plates. Positioning belt with broad thermoformed back. Sponge lining. 2 anchorage points for work positioning.	1,1 kg	x10
	HAR14XX				
HAR12 	HAR12GT	CE EN361	2 fall arrester anchorage point harness (back - front). 2 adjustment loops.	0,7 kg	x10
	HAR12XX				
HAR11 	HAR11GT	CE EN361	1 fall arrester anchorage point harness (back). 2 adjustment loops.	0,6 kg	x10
	HAR11XX				
EX120 	EX120	CE EN358	Positioning belt with thermoformed back. 2 lateral anchorage points for work positioning. 1 adjustment loop. Sponge back lining.	0,4 kg	x10

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

Article	Ref./Colours	Standard	Description		
HAR12GILNO 	HAR12GILNOGT	CE EN361 EN361	Harness with work vest not removable: Harness (Ref. HAR12). Vest: 65% polyester 35% cotton integrated. Mesh lining 100% polyester mesh netting. Zip closure. 2 pockets. Adjustable size via 3 in 1 multi zip.   	1,2 kg	x10
	HAR12GILNOXX				
HAR12GILJA 	HAR12GILJAGT	CE EN361 EN471 2.2	Harness with high visibility vest not removable: Harness (Ref. HAR12). Vest: 100% polyester twill. Sewn retroreflective tape. Polyester mesh lining. Zip closure. 5 pockets including 1 phone pocket. Badge holder place. Adjustable size via 3 in 1 multi zip.   	1,2 kg	x10
	HAR12GILJAXX				
HAR12GILOR 	HAR12GILORGT	CE EN361 EN471 2.2	Harness with high visibility vest not removable: Harness (Ref. HAR12). Vest: Twill 55% polyester 45% cotton. Sewn retroreflective tape. Polyester mesh lining. Zip closure. 5 pockets including 1 phone pocket. Badge holder place. Adjustable size via 3 in 1 multi zip.   	1,2 kg	x10
	HAR12GILORXX				



ANCHORAGE / WORK SUPPORT

EX030200



Double safety opening: establishment without disconnecting from the harness

Opening with one hand

Fall indicator and non-inverting device

Article	Ref./Colours	Standard	Description	Sizes/Length		
EX030200	EX030200	CE EN358 EN12841 EN353-2	3 multi function products in 1: Sliding fall arrest on braided rope anchorage line ø 10.5 mm - Stopper on rope - Lanyard tensioner equipped with a rope and 1 AM002 carabiner. The fall arrest device slides on its anchorage line and in case of a fall, automatically locks and stops the fall of the user. 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. 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). 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. Hook with automatic lock.	0.20 to 2 m	1,2 kg	x5
EX030400	EX030400			0.20 to 4 m	1,4 kg	

EX118200A



Recommended accessory for the proper use of this product: 1 AM002 connector

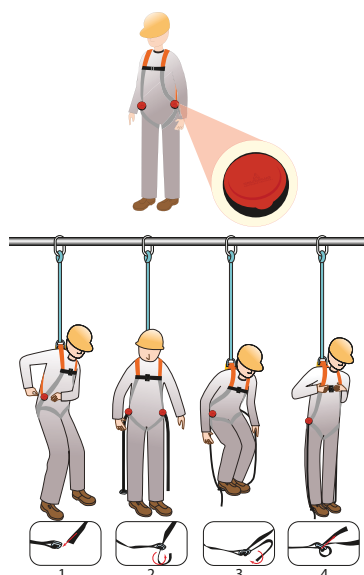


EX021



Article	Ref./Colours	Standard	Description	Sizes/Length		
EX118200A	EX118200A	CE EN358	Adjustable work positioning lanyard via stainless steel tensioner. Adjustable length. Stranded rope Ø 14 mm equipped with a wear indicator. Thimble loop. Splice protection. Protective sheath. 1 hook.	0.20 to 2 m	0,9 kg	x5
EX118400A	EX118400A			0.20 to 4 m	1,1 kg	
EX021	EX021		Adjustable work positioning lanyard via reducer. Adjustable length. Stranded rope Ø 12 mm. Protective sheath on the splices.	1.10 to 2 m	0,3 kg	x15

HA203



Article	Ref./Colours	Description	Weight	Quantity
HA203	HA203	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. Carrying case.	0,3 kg	x10

RIPLIGHT 2 HA201



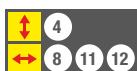
FALLDET



Article	Ref./Colours	Description	Weight	Quantity
RIPLIGHT 2 HA201	HA201	RIPLIGHT SYSTEM II® gives elasticity to your harness by removing the stress points. "Clips" easily on our harness straps. For optimum comfort, it is recommended to use three pairs of expandable waves. Sold in pairs.	0,03 kg	x1
FALLDET	FALLDET	Fall detector equipped: • with an accelerometer to detect the fall. It can be put in the pocket or, through its external handles, be attached to a belt. • with a button to call for help. No on / off button: It turns ON when it is in motion, and goes into OFF mode after 20 minutes of inactivity. Sold together as they work as a together.	0,04 kg	



ELARA320



Storage bag



Article	Ref./Colours	Standard	Description	Sizes/Length	Weight	Quantity
ELARA320	ELARA320	CE EN362 EN361 EN355 EN358	POSITIONNING & SCAFFOLDING - ready for use fall arrest kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 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 connectors AM002.	S/M/L	3,6 kg	x5

ELARA280



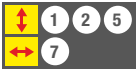
Storage bag



Article	Ref./Colours	Standard	Description	Sizes/Length	Weight	Quantity
ELARA280	ELARA280	CE EN362 EN361 EN355	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)	S/M/L	2,8 kg	x5

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

ELARA270



Article	Ref./Colours	Standard	Description	Sizes/ Length	Weight	Quantity
ELARA270	ELARA270	CE EN362 EN361 EN360 EN354 EN795-B	VERTICAL & HORIZONTAL 10 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 steel strap. Length 10 m. Plastic housing. 1 automatic swivel connector and fall indicator AM016 (Ref. AN123T). Lanyard and anchorage point in tubular strap, length 2 m (Ref. LO030). 2 connectors AM002.	S/M/L	8,5 kg	x1

ELARA140



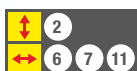
Storage bag



Article	Ref./Colours	Standard	Description	Sizes/ Length	Weight	Quantity
ELARA140	ELARA140GT	CE EN362 EN361 EN360	VERTICAL & HORIZONTAL 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 housing. 1 connector AM002 (Ref. AN102). 1 connector AM002.	S/M/L	2,1 kg	x5
	ELARA140XX			XL/XXL		



ELARA170



Storage bag



Article	Ref./Colours	Standard	Description	Sizes/Length	Weight	Quantity
ELARA170	ELARA170GT	EN362 EN361 EN353-2	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	3,3 kg	x5
	ELARA170XX			XL/XXL		
ELARA150	ELARA150	EN362 EN361 EN353-2	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. AN063/20). 2 connectors AM002.	S/M/L	2,4 kg	

ELARA190



Storage bag

Article	Ref./Colours	Standard	Description	Sizes/Length	Weight	Quantity
ELARA190	ELARA190GT	EN362 EN361 EN355	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).	S/M/L	1,8 kg	x5
	ELARA190XX			XL/XXL		

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

ELARA130



RESTRAINT KIT

Storage bag

Article	Ref./Colours	Standard	Description	Sizes/ Length		
ELARA130	ELARA130	CE EN362 EN361 EN354	RESTRAINT - ready for use kit: 1 fall arrestER anchorage point harness (back). 2 adjustment loops, 2 adjustable side plates with lanyard in irremovable stranded rope Ø 12 mm. Length 1.50 m. 1 connector AM002.	S/M/L	1,3 kg	x5

ELARA160



Storage bag

Article	Ref./Colours	Standard	Description	Sizes/ Length		
ELARA160	ELARA160	CE EN362 EN361 EN355	CLASSIC - ready for use fall arrester kit: 1 fall arrester anchorage point harness (back). Two adjustment loops, 2 adjustable side plates with fall arrester with not removable energy absorber in stranded rope Ø 12mm, length 2 m. 1 carabiner AM002.	S/M/L	1,5 kg	x5



FALL ARRESTERS

AN240CDD



Energy absorber in woven strap with integrated crumple on the lanyard



Reduced resting length limits discomfort to the operator and the risk of stumbling

Protective sheath on loops to reduce wear caused by the friction of connectors

AN230CD



Article	Ref./Colours	Standard	Description	Connector 1	Connector 2	Sizes/ Length		
AN240CDD	AN240	CE EN355	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 carabiner AM002. 2 hooks AM022.	1 x	2 x AM022	1.40 to 2 m	2,1 kg	x5
AN230CD	AN230		Fall arrester with energy absorber in woven webbing with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 carabiner AM002. 1 hook AM022.	AM002	1 x AM022		1,0 kg	

AN218150CCC



AN208150CC



Article	Ref./Colours	Standard	Description	Connector 1	Connector 2	Sizes/Length	Weight	Box
AN218150CCC	AN218150CCC	CE EN355	Fall arrester with energy absorber in double braided rope (Y) Ø 10.5 mm. Thimble loops.	1 x AM002	2 x AM002	1.50 m	1,2 kg	x5
AN208150CC	AN208150CC		Fall arrester with energy absorber in braided rope Ø 10.5 mm. Thimble loops.	1 x AM002	1 x AM002		0,8 kg	

AN218RCDD



AN208RCD



Article	Ref./Colours	Standard	Description	Connector 1	Connector 2	Sizes/Length	Weight	Box
AN218RCDD	AN218RCDD	CE EN355	Fall arrester with energy absorber in double braided rope Ø 12 mm (Y), adjustable by means of two gear rings on the rope.	1 x AM002	2 x AM022	1.30 to 2 m	2,0 kg	x5
AN208RCD	AN208RCD		Fall arrester energy absorber in braided rope Ø12 mm, simple and adjustable by means of a gear ring on the rope.	1 x AM002	1 x AM022		1,3 kg	



FALL ARRESTERS

AN201200CC



AN201200CD



Article	Ref./Colours	Standard		Description	Connector 1	Connector 2	Sizes/ Length	Weight	Box
AN201200CC	AN201200CC	CE	EN355	Fall arrester with energy absorber in stranded rope Ø 12 mm. Thimble loops.	1 x AM002	1 x AM002	2 m	0,8 kg	x5
AN201200CD	AN201200CD					1 x AM022		1,2 kg	

AN211200CCC



AN211200CDD



Article	Ref./Colours	Standard		Description	Connector 1	Connector 2	Sizes/ Length	Weight	Box
AN211200CCC	AN211200CCC	CE	EN355	Fall arrester with energy absorber in stranded rope (Y) Ø 12 mm. Thimble loops.	1 x AM002	2 x AM002	2 m	1,3 kg	x5
AN211200CDD	AN211200CDD					2 x AM022		2,0 kg	

AN203200CC



AN203200CD



Article	Ref./Colours	Standard	Description	Connector 1	Connector 2	Sizes/ Length	Weight	Box
AN203200CC	AN203200CC	CE EN355	Fall arrester with energy absorber in lanyard webbing. Thimble loops.	1 x AM002	1 x AM002	2 m	0,7 kg	x5
AN203200CD	AN203200CD				1 x AM022		1,1 kg	

AN213200CCC



AN213200CDD



Article	Ref./Colours	Standard	Description	Connector 1	Connector 2	Sizes/ Length	Weight	Box
AN213200CCC	AN213200CCC	CE EN355	Fall arrester with energy absorber in double lanyard webbing (Y). Thimble loops.	1 x AM002	2 x AM002	2 m	1,3 kg	x5
AN213200CDD	AN213200CDD				2 x AM022		1,8 kg	



FALL ARRESTERS














PROTECTOR TETRA



2 integrated carrying handles










To use the self retractable fall arrester certified for horizontal use, you have to pair the cable with the L0030 lanyard (page 349)



Article	Ref./Colours	Standard		Description	Connector 1	Sizes/ Length			
PROTECTOR TETRA	AN141F		EN360 + Intensive use + horizontal certification	Self retractable fall arrester with webbing with energy absorber. ABS case. Fall indicator. Inertia locking system.	1 x  AM021	6 m	5,3 kg	x1	
	AN141T				1 x  AM016				
	AN142F				1 x  AM021	8 m	5,4 kg	x1	
	AN142T				1 x  AM016				
	AN152F				Self retractable fall arrester with galvanised steel cable with integrated energy absorber. ABS case. Fall indicator. Inertia locking system.	1 x  AM020	6 m	5,6 kg	x1
	AN152T					1 x  AM016			
	AN153F					1 x  AM020	10 m	5,8 kg	
	AN153T					1 x  AM016			
	AN154F					1 x  AM020	15 m	6,5 kg	
	AN154T					1 x  AM016			

PROTECTOR METAL





Article	Ref./Colours	Standard		Description	Connector 1	Sizes/ Length		
PROTECTOR METAL	AN115F		EN360	Self retractable fall arrester with stainless steel cable with integrated energy absorber. Steel case. Fall indicator. Inertia locking system.	1 x  AM020	20 m	9 kg	x1
	1 x  AM016							
	AN116F				1 x  AM020	25 m	10 kg	
	AN116T				1 x  AM016			
	AN11730F				1 x  AM020	30 m	11 kg	
	AN11730T				1 x  AM016			

PROTECTOR INOX



Metal case

Stainless steel cable

Article	Ref./Colours	Standard		Description	Connector 1	Sizes/ Length	Weight	Quantity
PROTECTOR INOX	AN11023F	CE	EN360	Self retractable fall arrester with Ø 5 mm stainless steel cable with integrated energy absorber. Metal case. Inertia locking system.	1 x  AM020	23 m	9,4 kg	x1
	AN11023T				1 x  AM016			



FALL ARRESTERS

PROTECTOR ELEVATOR










Integrated carrying handle

Up / down function valve
rescue winch

Non return system



The rescue winch enables
the evacuation of a person
from above or below


Article	Ref./Colours	Standard		Description	Connector 1	Sizes/ Length		
PROTECTOR ELEVATOR	TR007F		EN360 EN1496 class B	Self retractable fall arrester in steel cable with removable rescue winch. Steel case. Inertia locking system. Energy absorber	1 x  AM020	20 m	14,9 kg	x1
	1 x  AM016							
	TR01730F				1 x  AM020	30 m	18,9 kg	
	TR01730T				1 x  AM016			

MINIBLOC AN102



FIXBLOC AN105



Article	Ref./Colours	Standard	Description	Connector 1	Sizes/ Length	Weight	Box
MINIBLOC AN102	AN102	CE EN360	Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 carabiner AM002.	1 x 	2.50 m	1,1 kg	x5
FIXBLOC AN105	AN105		Self retractable fall arrester with strap. ABS case. Fall indicator. Inertia locking system. 1 carabiner AM002.	AM002	1.50 m	0,9 kg	

Most of our products have been tested with a mass constraint greater than 40% to 50% of the normative requirements (140 kg or 150 kg). Find this information in the technical specifications of our products.

PROTECTOR LOAD



LOAD SELF RETRACTABLE FALL ARRESTER

Intensive use

Composite material housing with high strength ABS

Inertia locking system

Integrated energy absorber

2 integrated carrying handles



Steel case

1 integrated carrying handle



Article	Ref./Colours	Standard	Description	Sizes/ Length		
PROTECTOR LOAD	AN517	Ma- chinery Directive	Load fall arrester in galvanized cable Ø 4 mm to secure all moving loads under 250 kg.	10 m	5,1 kg	x1
	AN518			15 m	5,9 kg	
	AN521		Load fall arrester in galvanized cable Ø 4.5 mm to secure all moving loads under 300 kg.	10 m	5,7 kg	
	AN510		Load fall arrester in galvanized cable Ø 4 mm to secure all moving loads under 100 kg.		6,0 kg	
	AN530		Load fall arrester in galvanized cable Ø 6 mm to secure all moving loads under 500 kg.	12 m	11 kg	





AN066A



AN066



AN410
AN420
AN430
AN401

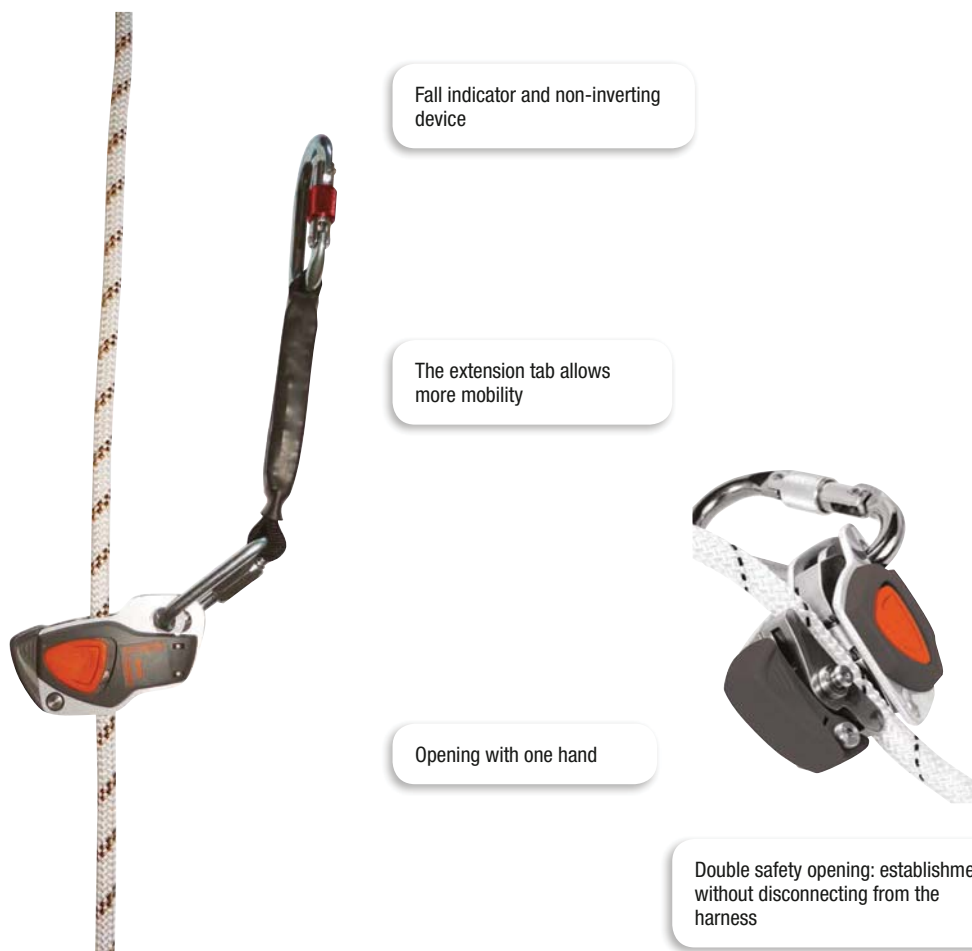






AN006



TC009

FALL ARRESTER ON FLEXIBLE ANCHORAGE LINE

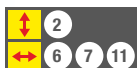


Article	Ref./Colours	Standard	Description	Connector 1	Sizes/ Length		
CAMELEON AN066A	AN066A	EN353-2 EN358 EN12841 type A and type B CE	3 multi function products in 1: Sliding fall arrester on braided rope anchorage line \varnothing 10.5 mm - Stopper on rope - Rope Adjuster equipped with an extension tab with energy absorber and an AM002 carabiner. The fall arrest device slides on its anchorage line and in case of a fall, automatically locks and stops the fall of the user. 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. 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). The positioning device allows adjustment of the distance between the operator (with work positioning belt) and the structure.	1 x  AM002		0,4 kg	
CAMELEON AN066	AN066		3 multi function products in 1: Sliding fall arrester on braided rope anchorage line \varnothing 10.5 mm - Stopper on rope - Rope Adjuster with a carabiner AM002. The fall arrest device slides on its anchorage line and in case of a fall, automatically locks and stops the fall of the user. 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. 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). The positioning device allows adjustment of the distance between the operator (with work positioning belt) and the structure.			0,3 kg	x5
AN410	AN410	EN353-2 EN12841	Anchorage line in braided rope \varnothing 10.5 mm for CAMELEON®. 1 loop sewn thimble. Equipped with an AN006 counterweight and an AM002 connector.	1 x  AM002	10 m	1,4 kg	
AN420	AN420				20 m	1,9 kg	
AN430	AN430				30 m	2,4 kg	
AN401	AN401				per meter > 30 m		x1
AN006	AN006		Counterweight for anchorage line \varnothing 8-18 mm in black rubber. Weight 400 g.			0,4 kg	x30
TC009	TC009		Braided rope \varnothing 10.5 mm - Length on request.				



FALL ARRESTERS

ASCORD AN060







Non-inverting device

Energy absorber with fall indicator

AN315



Article	Ref./Colours	Standard		Description	Connector 1	Sizes/ Length		
ASCORD AN060	AN060	CE	EN353-2	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.	1 x  AM002		0,7 kg	x5
AN315	AN315			Anchorage line stranded rope Ø 14 mm for ASCORD®. End spliced with thimble loop.	1 x  AM002	10 m	1,5 kg	x10
AN317	AN317					20 m	2,8 kg	x5
AN319	AN319					30 m	4,1 kg	
AN013	AN013					per meter > 30 m		x1

FENNEC



Recommended accessory for the proper use of this product: 1 connector AM002

AN003



Article	Ref./Colours	Standard		Description	Sizes/ Length		
FENNEC	AN06310	CE	EN353-2	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	1,3 kg	x10
	AN06320				20 m	2,2 kg	x5
	AN06330				30 m	3,0 kg	
	AN06300			Sliding non opening fall arrester with fall indicator on stranded rope anchorage line Ø 12 mm. Wear indicator. Comes mounted on AN003.		3,7 kg	x10
AN003	AN003	CE	EN353-2	anchorage line stranded rope Ø 12 mm. Wear indicator. Longer by more than 30 m. Rope equipped with an AN06300.	per meter > 30 m		x1



FALL ARRESTERS



AN801

AN802

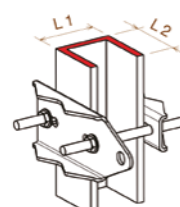
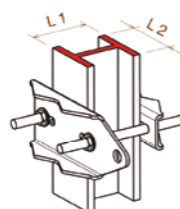
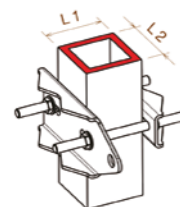
AN024

AN025

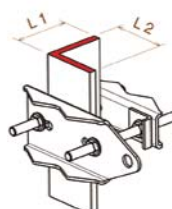
AN801



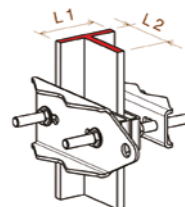
Rectangular attachments
 $L1 \leq 160 \text{ mm}$
 $L2 \leq 94 \text{ mm}$



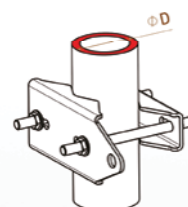
L-shaped attachments
 $L1 \leq 160 \text{ mm}$
 $L2 \leq 94 \text{ mm}$



T-shaped attachments
 $L1 \leq 160 \text{ mm}$
 $L2 \leq 94 \text{ mm}$





Tubular attachments
 $\varnothing \leq 94 \text{ mm}$



ASCAB AN070



Article	Ref./Colours	Standard	Description	Sizes/ Length		
AN801	AN801	CE EN795-A	Top attachment (EN795-A), lower attachment and tensioner system in inox steel with universal anchorage.		4 kg	x6
AN802	AN802		Intermediary attachment in inox steel with universal anchorage. Recommended at least every 8 m.		1.5 kg	x12
AN024	AN024	CE EN353-1 EN353-2	1 meter anchorage line cable for ASCAB 3® in stainless steel. 1 thimble sleeve loop.			x1
AN025	AN025		Additional meter of anchorage line cable for ASCAB 3®.			
ASCAB AN070	AN070	CE EN353-1 EN353-2	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.		1 kg	x5
LDV04	LDV04		Ready to use vertical lifeline kit. For use by one person on a ladder, upright or rungs resistant to at least a load of 10 kN.	4 m	5 kg	x1
LDV06	LDV06			6 m	6 kg	
LDV08	LDV08			8 m	7 kg	
LDV10	LDV10			10 m	8 kg	
LDV12	LDV12			12 m	9 kg	




SPIDERLINE II®






End pieces

	LV504 End anchorage - 3 fastening holes
	LV505 End anchorage - 1 fastening hole
	LV506 End anchorage - 1 fastening hole with threaded rod
	LV521 End bollard counter plate
	LV522 End bollard



Absorber

	LV510 Energy dissipater with fall indicator and power indicator
---	---

Various

	LV515 Fork end to swage for cable - 8 mm
	LV516 Tensioner to crimp
	LV527 Lead to seal the SPIDERLINE II lifeline



Various

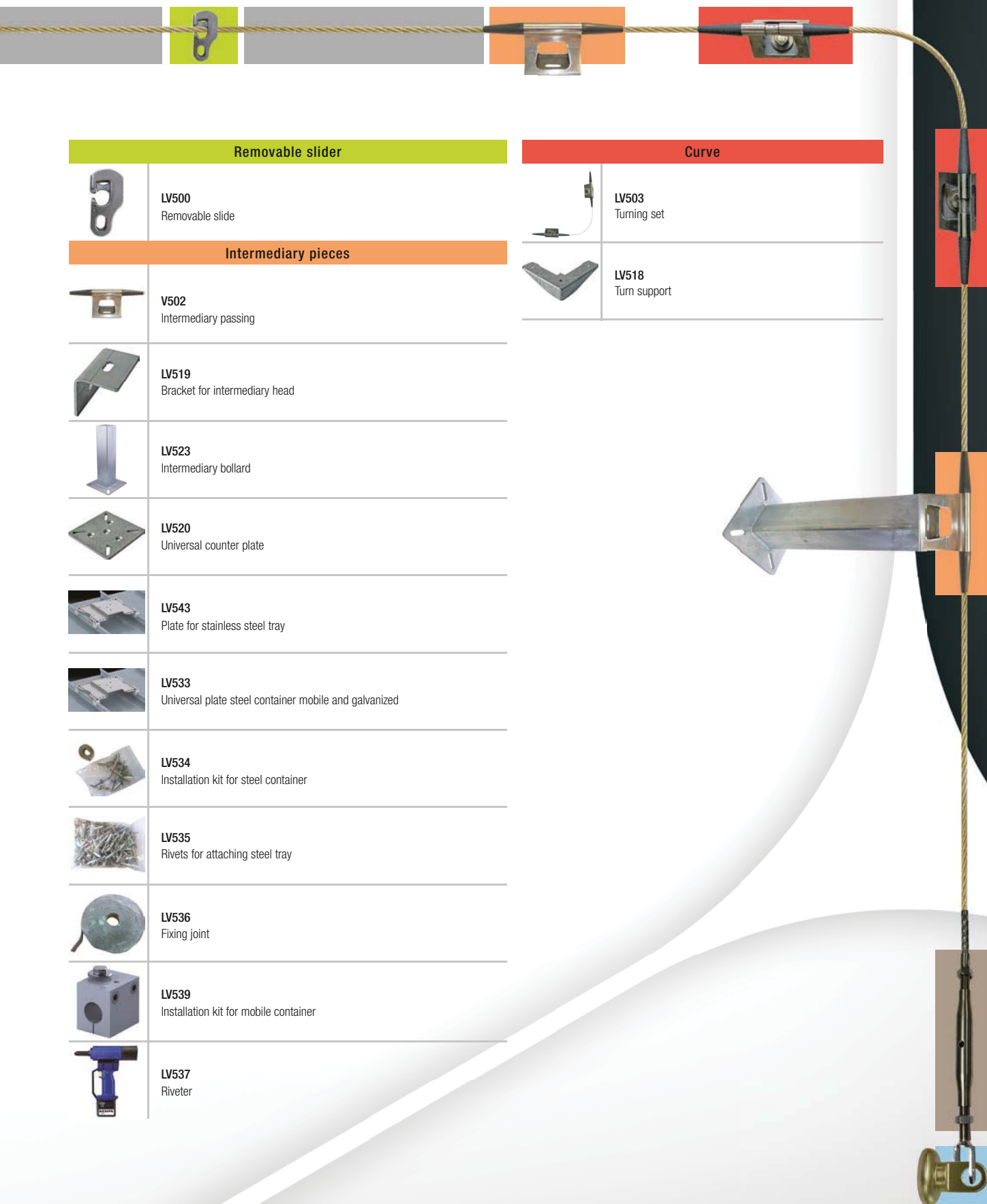
	LV555 SPIDERLINE II Sample case
	LV057 Sign post

Cable

	LV040 Cable
	LV531 Cable reel - 200 m
	LV532 Cable reel - 1,000 m
	LV514 Workforce cable crimping
	LV528 Crimping machine
	LV529 Crimping die
	LV530 Replacement battery for LV528 crimper

SPIDERLINE II®

Article	Ref./Colours	Standard		Description	Sizes/ Length		
SPIDERLINE II	SPIDERLINE	CE	EN795-C	Permanent horizontal lifeline in cable Ø 8 mm. Stainless steel components. Suitable for all media types, locations and materials: floors, walls, ceilings, inside or outside. For more information, please contact us.			
LDV04	LDV04			Ready to use vertical lifeline kit. For use by one person on a ladder, upright or rungs resistant to at least a load of 10 kN.	4 m	4,4 kg	x1
LDV06	LDV06				6 m	4,9 kg	
LDV08	LDV08				8 m	5,4 kg	
LDV10	LDV10				10 m	5,9 kg	
LDV12	LDV12				12 m	6,4 kg	



Removable slider



LV500
Removable slide

Intermediary pieces



V502
Intermediary passing



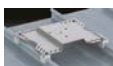
LV519
Bracket for intermediary head



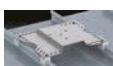
LV523
Intermediary bollard



LV520
Universal counter plate



LV543
Plate for stainless steel tray



LV533
Universal plate steel container mobile and galvanized



LV534
Installation kit for steel container



LV535
Rivets for attaching steel tray



LV536
Fixing joint

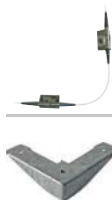


LV539
Installation kit for mobile container



LV537
Riveter

Curve



LV503
Turning set

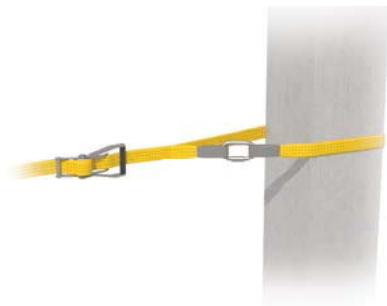


LV518
Turn support



ANCHORAGE / WORK POSITIONING

SPEEDLINE LV201



Protection of leather
buckles

Strap width 35 mm

Article	Ref./Colours	Standard	Description	Sizes/ Length	Weight	Quantity
SPEEDLINE LV201	LV201	CE EN795-B	Temporary horizontal lifeline with certified strap for 2 people. Adjustment of the length and the tension with a ratchet tensioner. Equipped with 2 carabiners AM002. Bag for storage and transport.	2.50 to 20 m	3,3 kg	x1

IPN LV130



DAYAK LV120G



Article	Ref./Colours	Standard	Description	Weight	Quantity
IPN LV130	LV130	CE EN795-B	A transportable interim anchorage device with aluminium alloy wheels. It can be attached to beams of width 76 to 255 mm.	4 kg	x1
DAYAK LV120G	LV120G		Transportable anchorage point, galvanized steel, for door frame or window of 63 to 123 cm. Adjustable with clamping screw.	7 kg	

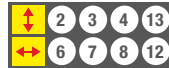
LV100



Easy Installation

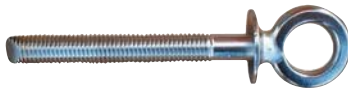


LV102100



Article	Ref./Colours	Standard	Description	Sizes/ Length	Weight	Quantity
LV100	LV100	CE	EN795-A	Stainless steel anchorage mounting plate with screws Ø 12 mm.	0,05 kg	x10
LV102100	LV102100		EN795-B	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1 m	
LV102150	LV102150			1,50 m	0,30 kg	

LV105



AM007



Studied for structures with sharp corners



Article	Ref./Colours	Standard	Description	Sizes/ Length	Weight	Quantity
LV105	LV105	CE	EN795-A	Anchorage with stainless steel eye Ø 12 mm. Overall length 140 mm. Rod length (under flange) 100 mm. Thread length 80 mm.	0,12 kg	x10
AM007	AM007		EN354 EN795-B	Sling anchor in galvanized steel cable Ø 8 mm. Protective sheath. 2 thimble ferrule loops.	1 m	



ANCHORAGE / WORK POSITIONING

LO147150CDD



LO147150



Article	Ref./Colours	Standard		Description	Connector 1	Connector 2	Sizes/ Length		
LO147150CDD	LO147150CDD	CE	EN354	Double lanyard in braided rope Ø 10.5 mm. 2 sewn loop ends.	1 x AM002	2 x AM022	1.50 m	1,45 kg	x5
LO147150	LO147150							0,30 kg	x15

LO047150AD



LO047100





Article	Ref./Colours	Standard		Description	Connector 1	Connector 2	Sizes/ Length		
LO047150AD	LO047150AD	CE	EN354	Lanyard in braided rope Ø 10.5 mm. 2 sewn loop ends.	1 x AM010	1 x AM022	1.50 m	0,83 kg	x15
LO047100	LO047100						1 m	0,14 kg	
LO047150	LO047150						1.50 m	0,16 kg	
LO045200	LO045200						2 m	0,18 kg	

LO007150CD



LO007100



Article	Ref./Colours	Standard		Description	Connector 1	Connector 2	Sizes/ Length	Weight	Quantity
LO007150CD	LO007150CD	CE	EN354	Double lanyard in stranded rope Ø 12 mm. 2 thimble loops.	1 x 	1 x 	1.50 m	0,87 kg	x15
LO007100	LO007100R						1 m	0,18 kg	
LO007150	LO007150						1.50 m	0,22 kg	
LO005200	LO005						2 m	0,26 kg	













LO030



Article	Ref./Colours	Standard		Description	Sizes/ Length	Weight	Quantity
LO030	LO030	CE	EN354 EN795-B	Lanyard and anchorage point in tubular webbing. 2 sewn loops. Width 25 mm.	2 m	0,13 kg	x15
LO031	LO031				1.50 m	0,10 kg	
LO032	LO032				1 m	0,07 kg	












CONNECTORS
















































Article	Ref./Colours	Standard	Description		
AM009 	AM009	CE EN362	Quick docking in stainless steel. Large aperture 150 mm. Eye hook. R> 22 kN. 	0,38 kg	x20
AM022 	AM022	CE EN362	Automatic hook lock in galvanized steel. Large aperture 55 mm. Eye hook. R> 20 kN. 	0,50 kg	x20
AM027 	AM027	CE EN362	Automatic locking carabiner in light alloy. Large aperture 58 mm. Sliding ring. Eye hook opening with latch. 	0,24 kg	x20
AM030 	AM030	CE EN362 EN12275	Automatically locking hook in aluminium alloy. Opening 25 mm. 	0,13 kg	x20
AM018 	AM018	CE EN362 EN12275	Carabiner with 1/4 turn automatic lock in steel. Opening 17 mm. R> 25 kN. 	0,20 kg	x20

Article	Ref./Colours	Standard	Description		
AM020 	AM020	CE EN362	Auto connector with swivel in light alloy with fall indicator, automatic closing and locking, equipped with an opening fork, 11 mm wide.	0,13 kg	x5
	AM021		Auto connector with swivel in light alloy with fall indicator, automatic closing and locking, equipped with an opening fork, 22 mm wide. 		
AM021					
AC001 	AC001	CE EN354	Swivel with aluminium fall indicator, equipped with a non opening cap, width 11 mm and an opening cap, width 11 mm.	0,06 kg	x5
	AC002		Swivel with aluminium fall indicator, equipped with a non opening cap, width 22 mm and an opening cap, width 22 mm. 		
AC002					
AM006 	AM006	CE EN362	Triangular snap shackle with galvanized steel screw. Opening 8 mm. 	0,09 kg	x20
AM002 	AM002	CE EN362	Screw lock carabiner in galvanized steel. Opening 17 mm. R> 23 kN. 	0,22 kg	x20
AM025 	AM025	CE EN362	Automatic locking carabiner in light alloy. Opening 22 mm. Ring 1/4 turn. R> 25 kN 	0,09 kg	x20
AM010 	AM010	CE EN362	Automatic hook lock in steel. Eye hook. Opening 16 mm. R> 23 kN. 	0,23 kg	x20

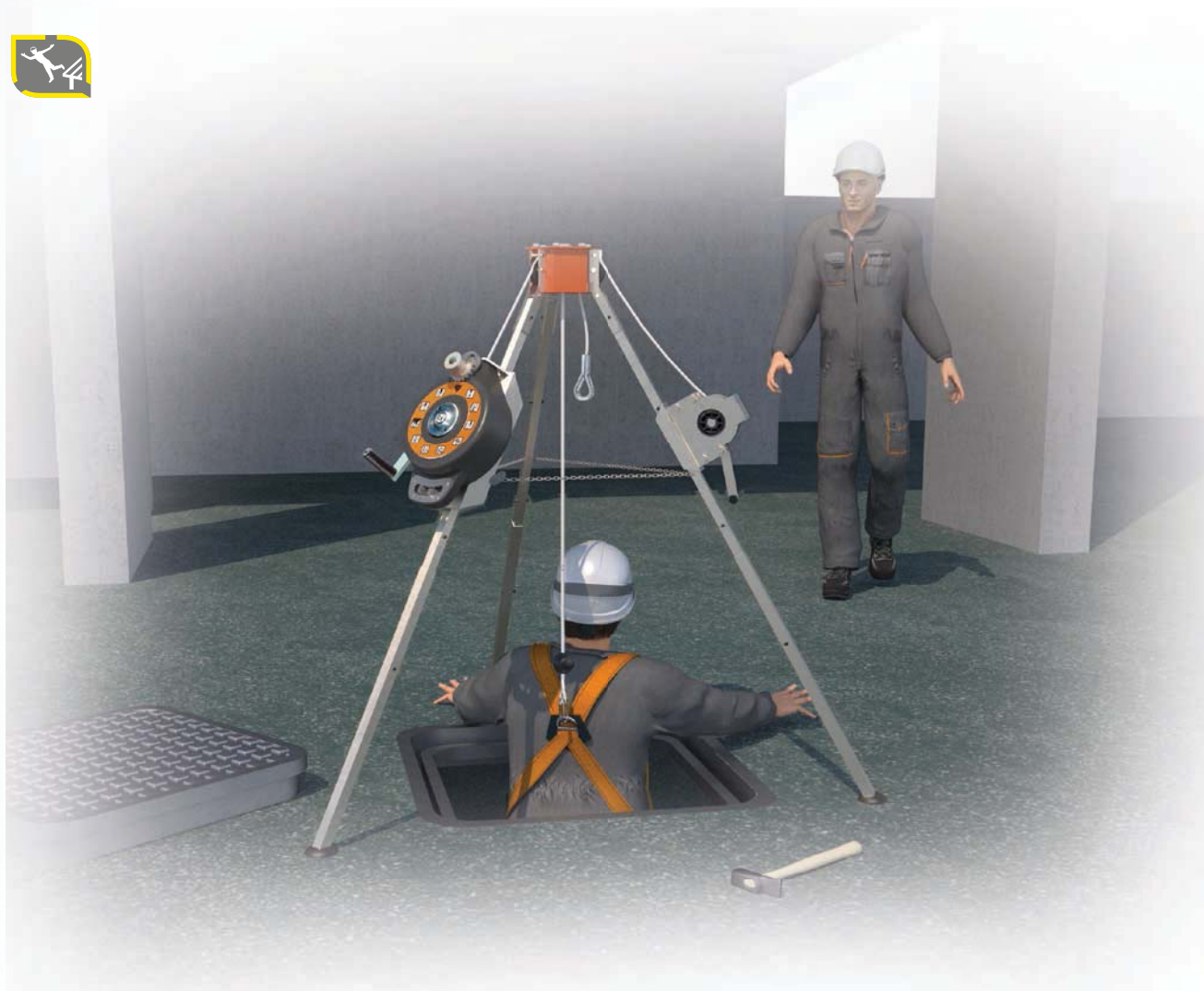






SUSPENSION

Article	Ref./Colours	Standard	Description		
TC001 	TC001	CE EN567	Ventral opening blocker type in aluminium alloy. Works on braided rope Ø 8 to 13 mm. 	0,16 kg	x10
TC002 	TC002	CE EN567	Right hand ascension handle in aluminium alloy. Works on braided rope Ø 8 to 13 mm. 	0,24 kg	x10
TC003 	TC003		Left hand ascension handle in aluminium alloy. Works on braided rope Ø 8 to 13 mm. 		
DESCORD TC006 	TC006	CE EN341 Class A EN12841 Class C	Self locking descender with double security (anti-panic system) in aluminium. Intended for works on braided rope Ø 9 à 12 mm. 	0,36 kg	x5
TC004 	TC004		Figure of eight in aluminium alloy. Works on braided rope Ø 9 to 12 mm. 	0,13 kg	x20
TC044 	TC044		Safety figure of eight in aluminium alloy. Works on braided rope Ø 9 to 16 mm. 	0,26 kg	x20
TC040 	TC040	CE EN354	Double swivel on ball bearing. 	0,16 kg	x20

Article	Ref./Colours	Standard	Description		
TC005 	TC005	CE EN12278	Oscillating pulley flanges in aluminium alloy. Intended for works on braided rope less than 16 mm diam.       	0,25 kg	x10
TC015 	TC015	CE EN12278	Double pulley with oscillating flanges in aluminium alloy for braided rope less than 16 mm diameter.       	0,43 kg	x10
TC025 	TC025	CE EN12278	Double aluminium alloy pulley on ball bearings, designed for zip lines (less than 13 mm diameter) and cables (less than 12 mm diameter).      	0,28 kg	x10
TC016 	TC016	CE EN12278	Mini pulley in aluminium alloy for works on braided rope less than Ø 11 mm diam and cable less than Ø 12 mm.      	0,14 kg	x10
TC012 	TC012		Mono stirrup adjustable strap 25 mm from 90 to 120 cm . Pedal ascent. To pair with TC002 or TC003.      	0,20 kg	x5
TC029 	TC029		Opening rope protection 35 cm. Velcro tape closure. Scalable length by adding elements.       	0,20 kg	x10





Article	Ref./Colours	Standard	Description	Connector 1	Sizes/ Length			
TR020	TR020	EN795-B	Telescopic tripod in galvanized steel. Adjustable height from 1.45 m to 2.15 m. Maximum wheelbase of 1.50 m on the ground. 1 central anchorage ring for a fall arrest. Able to attach an adjustment board TR101 or TR102 for a self retracting fall arrest.			20 kg	x1	
TR022	TR022		Telescopic tripod in galvanized steel. Adjustable height from 1.45 m to 2.15 m. Maximum wheelbase of 1.50 m on the ground. 1 central anchorage ring for a fall arrest. Equipped with two adjustable plates for a self retracting fall arrest.			26 kg		
TR003C	TR003C	Ma- chinery Directive EN292	Manual winch in galvanized cable. Length 20 m. Non-return system. Folding handle.		20 m	7,8 kg		
TR003K	TR003K		Manual winch in galvanized cable. Length 30 m. Non-return system. Folding handle.		30 m	8,1 kg		
PROTECTOR ELEVATOR	TR007F	CE EN360 EN1496 class B	Self retractable fall arrester in steel cable with removable rescue winch. Steel case. Inertia locking system. Energy absorber	1 x  AM020	20 m	14,9 kg		
	TR007T			1 x  AM016				
	TR01730F			1 x  AM020	30 m	18,9 kg		
	TR01730T			1 x  AM016				
TR101	TR101		Bracket in galvanized steel for a self retractable fall arrester. To attach to a TR020 tripod.			3 kg		
TR102	TR102		Bracket in galvanized steel for winch. To attach to a TR020 tripod.					
TRBAG	TRBAG		Storage bag with wheels for tripod.					1,7 kg

TR020

TR022

TR003C

TR003K



TR102

TR007F

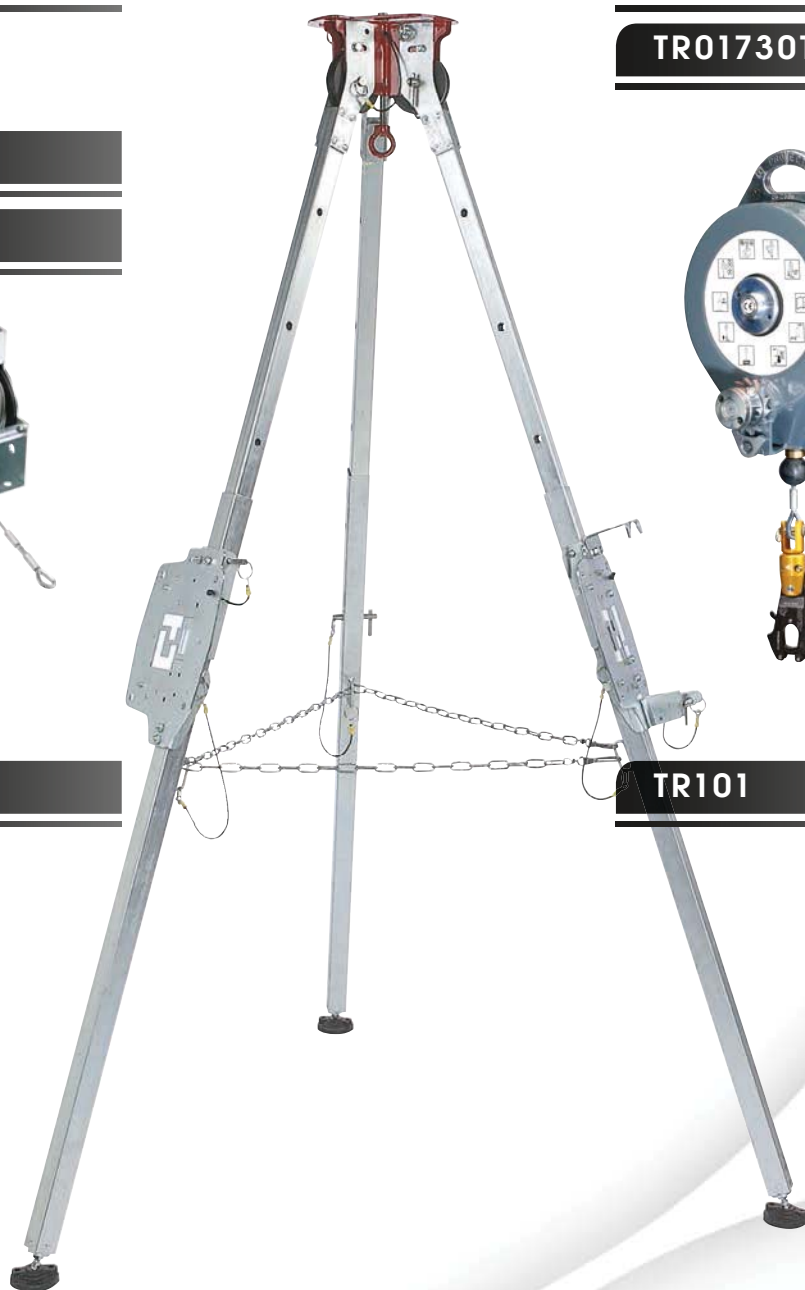
TR007T

TR01730F

TR01730T



TR101



TRBAG



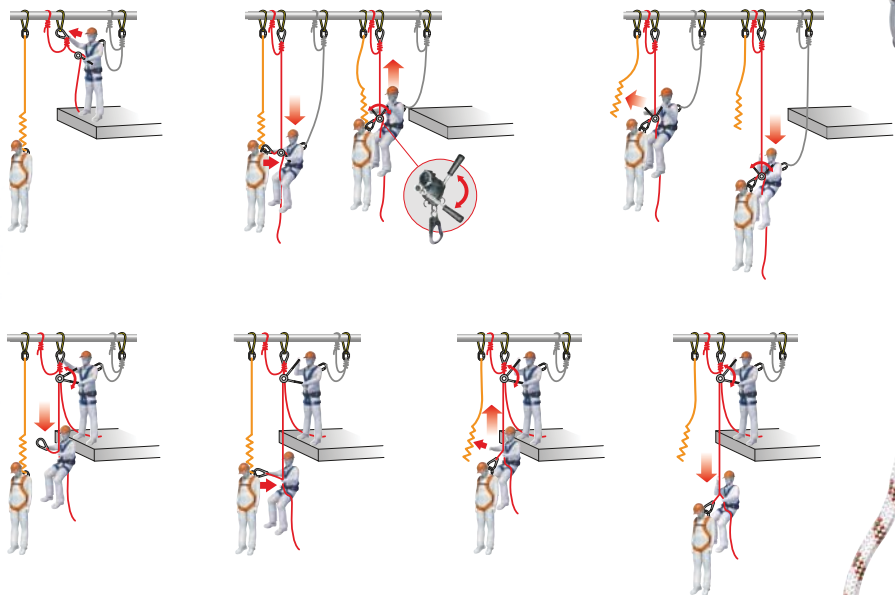
RESCUE

TC013






Usable by 1 or 2 rescuers.

Approved for 2 people



Equipped with a storage bag TC008



Article	Ref./Colours	Standard	Description	Sizes/ Length		
TC013	TC013	 EN341 EN1496 Class A	Evacuation and rescue equipment. It enables multi to and for evacuations, to access a person, to recover and evacuate them. Suitable for 1 or 2 rescuers. Approved for 2 people. TC014 rope sold separately by the meter (length up to 160 m).		5 kg	x1
TC014	TC014		Braided rope Ø 9 mm for TC013. Sold by the meter, max length 160 m. Thimble loops.	per meter < 160 m		

TC102



Extra light and robust



TC103



Article	Ref./Colours	Standard	Description	Weight	Quantity
TC102	TC102	CE Directive 93/42/CEE	Universal rescue stretcher sold with: Nylon rope along the perimeter 3 belts of 50 mm in nylon with quick release. Closed cell waterproof mattress. Pre-formed polyethylene footrest with adjustable position. in high-density polyethylene shell is attached to an aluminium frame	13,5 kg	x1
TC103	TC103		Sling system for vertical transport of stretchers (specially designed for TC102). Adjustable length. Equipped with 4 hooks.	2,1 kg	

TC022



TC019



Article	Ref./Colours	Standard	Description	Weight	Quantity
TC022	TC022	CE EN1498 Class B	Rapid evacuation triangle. Fits all body types with its 12 adjustment points.	1,1 kg	x1
TC019	TC019		Evacuation lot composed of: 50 m braided rope Ø 10.5 mm 1 double safety auto locking descender device TC006 1 anchor ring LV102150 2 connectors AM025 1 carrier bag TC008	7,1 kg	





A training centre devoted to occupational health and safety.
Special PPE courses designed for both distributors and users.

Information and training to better understand the issues of personal protection.

- Act within the framework of health and safety at work.
- Argue a range of personal protection.
- Understand the technical features of personal protection.
- Follow a study of work position and recommend a solution for personal protection.
- Identify and assess risks, adjust the performance of protection.
- Comply with requirements for recording, storage, maintenance, product control.
- Read and understand the product certification.
- Know the legal, regulatory and normative environment.





TECHNICAL INFORMATION

Head protection p.364

Hand protection p.372

Body protection p.377

Fall protection p.383

Foot protection p.385

Glossary p.387

Index p.401

This technical specification aims to help the reader understand the various technical and regulatory information related to products. It also provides summary information on the standards and their content. Warning, this information is absolutely not exhaustive and the standards are constantly changing.





A UNIQUE IMAGE IN YOUR SHOP



TECHNICAL INFORMATION





A UNIQUE IMAGE IN YOUR SHOP



CORNERDP

H 200 x L 100 x P 60 cm
High module



CHESTDUMMYGR

H 79 x L 40 x P 40 cm
PVC chest dummy



MANNEQUIN

H 172 x L 60 x P 60 cm
Dummy



CORNERLOW

H 120 x L 100 x P 120 cm
Low module

CORNERSTOOL

H 40 x L 40 x P 40 cm
Pouf seat





PLV004

H 32 x L 20 x 29.5 cm
Counter display for spectacles



PLV002

H 25.5 x L 33 x 36 cm
Cardboard box



HEADDUMMY

H 40 x L 25 x P 25 cm
Head dummy



PLV005

H 35 x L 29 x P 14 cm
Counter display for gloves



HANGERNA

H 22 x L 44 x P 1 cm
Wood hanger for jackets



CLIPHANGERNA

H 13.5 x L 36.5 x P 2.5 cm
Wood hanger for trousers



PLV006

H 166 x L 60 x P 60 cm
Shoes display





THE DIRECTIVE

STANDARDIZATION

CATEGORIZATION

- **PPE category 1** : Protection against Minor Risks.
- **PPE category 2** : All PPE that is not category 1 or 3.
- **PPE category 3**: Protection against disability or fatality.

CERTIFICATION PROCEDURE

[illegible]

- **PPE category 2 and 3:** EC type examination of PPE by an independent body for which compliance with the Directive 89/686/EEC is verified using standards that are in accordance with the Directive. Issuance of the EC type Examination Certificate (confidential document).

- Note:** Some products have passed tests for American standards (USA).

► HOW TO PROTECT YOURSELF?

- **Identify the type of risk:** spray, 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,...).

- **Symbol meaning:**

- 1:** optical class allowing permanent wear of the spectacles
- S:** Increased robustness: steel ball of 22 mm diameter at 5.1 m/s
- F:** Low energy impact: steel ball of 6 mm diameter at 45 m/s (maximal protection for glasses).
- B:** Medium energy impact: steel ball of 6 mm diameter at 120 m/s (maximal protection for goggles).
- A:** High energy impact: steel ball of 6 mm diameter at 190 m/s (maximal protection for visors).
- 3:** Liquid resistance (droplets or splashes)
- 4:** Large dust particles resistance (size of $> 5 \mu\text{m}$)
- 5:** Gas and fine dust particles resistance (size $< 5 \mu\text{m}$)
- 8:** Short circuit electric arc resistance
- 9:** Resistance to splashes of molten metal and penetration of hot solids
- T:** High speed particles at extreme temperatures
- N:** Resistance to fogging of lenses
- K:** Resistance to surface damage by fine particles (anti-scratch)

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.

EN1731 : Material specifications, design, performance and test methods for eye and face mesh type protective, for professional use.

ANSI (US American National Standards institute) Z87.1-2003 :

Specifications and minimum general requirements, test methods, selection, use and maintenance of eye and face protection.





2 resistance levels:

"Basic Impact" Z87 marking

"High Impact" Z87+ marking

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					
			UV FILTERS (EN170)		IR FILTERS (EN171)	SUN FILTERS (EN172)		WELDING (EN169)
			2	2C	4	5	6	no code nr
CLEAR 	80.0%	1.1						
	74.4%	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.

SCALE 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 in the DELTA PLUS range.



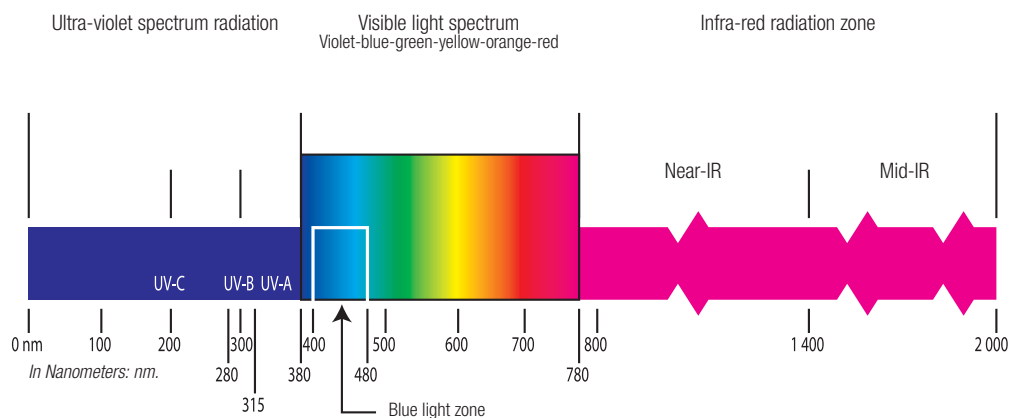


HEAD PROTECTION

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.
Blue light	400-480 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).

THE ELECTRO-MAGNETIC SPECTRUM



RECOMMENDED USE OF DIFFERENT GRADE NUMBERS FOR ARC WELDING ACCORDING TO STANDARDS EN169/EN175

A Current amperage																					
Process	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.

SAFETY HELMET

► 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 a face and hearing protection.

► STANDARDS

EN397	Protective helmets for industry	MANDATORY	Impact* : 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. Penetration* : the tip of the mass used in the test (3 kg over 1m) must not come into contact with the skull Flammability : 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	In extreme temperatures : impact and penetration tests are conducted at room temperature at 150°C, at -20°C or -30°C Protects against lateral compression . The maximum deformation of the helmet should be ≤ 40 mm Protects against accidental short-term contact with a live electrical conductor up to 440 VAC Resistance to molten metal splashes
EN50365	Electrical insulation helmets for use in low voltage environment	MANDATORY	Electrically insulating helmets for use near energized equipment not exceeding 1000 VAC or 1500 VDC (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 Z89	(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	Impact* : 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. Penetration* : 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	In extreme temperatures : impact and penetration tests are conducted at room temperature at -20°C or -30°C Protects against accidental short-term contact with a live electrical conductor up to 440 VAC Flammability : the helmet must not burn with flame emission more than 5 seconds after removal of the flame (F marking)

► HELMET MARKING ILLUSTRATION

Helmet material



Year and month of manufacture:
Taking the last marked point and refer to the month and the year. Here made in 07/2012.

Helmets lifespan:
ZIRCON, QUARTZ:
5 years from date of manufacture,
3 years in use.
SUPER QUARTZ, DIAMOND, GRANITE:
7 years from the date of manufacture,
4 years use.





CE EN397:1995
A1:2000
DIAMOND V
-20°C LD MM 440 VAC
Classe 0
Batch NR :
production date

DELTA PLUS
53 - 63 cm

- > CE Marking
- > Standard number
- > Name of the helmet model
- > Optional requirements
- > EN50365 standard
- > Batch number

- > Manufacturer identification
- > Size Range





HEAD PROTECTION

HEARING PROTECTION

► 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** nécessaire pour revenir à un niveau ambiant acceptable (cf 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 ≥ 85 dB(A)	8 hours exposure time at ≥ 80 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...)

► HOW DO YOU USE THE ATTENUATION VALUES?

3 indicators, from the simplest to the most precise are made available to the user:

- **SNR (Simplified Noise Reduction):** 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).

► STANDARDS

- **EN352 :** Exigences of safety and tests
- **EN352-1 :** the ear-muff
- **EN352-2 :** the earplugs
- **EN352-3 :** the adjustable head defenders for the safety helmets.
- **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).



DISPOSABLE BREATHING PROTECTION

► HOW TO PROTECT YOURSELF ?

To choose the correct breathing protection.

- **Identify the type of risk:** dust, fume, ...
- **Identify the toxic product.**
- **Locate and record toxicity (concentration).**
- **Compare with** the exposure limit value of the (OEL or STEL).
- **Determine the type of filter (P1, P2 or P3).**
This step must take the environment of the exposed working station into consideration (moisture, temperature...)

RESPIRATORY MASKS

Respiratory masks give you protection against respiratory attacks: Fumes, dust, mists, gases, vapours.

► HOW TO PROTECT YOURSELF ?

To choose the correct respiratory apparatus (half-mask or complete mask equipped with one or two cartridges).

- **Identify the type of risk:** dust, fume, gas, vapours, ...
- **Identify the toxic product.**
- **Locate and record its toxicity (concentration).**
- **Compare with** the exposure limit value of the (OEL or STEL).
- **Determine the type of filters:** With A, B, E, K and its class 1, 2, 3.
This step must take into account of the environment of the exposed place (moisture, temperature...)

► THE CHOICE OF A FILTER

Each filter or cartridge is identified with a colour code.

Example for a filter ABEK + P:



FILTER USE CHART		
Gas and vapour filters	Colour code	Type of protection
Type A		Protects from organic gases and vapours whose boiling point is > 65°C (solvents and hydrocarbons).
Type AX		Protects from organic gases and vapours whose boiling point is ≤ 65°C (acetone, ethers, methanol ...)
Type B		Protects from inorganic gases and vapours, except for carbon monoxide.
Type E		Protects from sulphur dioxide and some acid vapours and gases.
Type K		Protects from ammoniac and some amine derivatives.

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.




MARKING





HEAD PROTECTION

DUST AND AEROSOL FILTERS

Type	Colour code	Protection
P1		Protects from non-toxic dust and / or water-based aerosols.
P2		Protects from slightly toxic or irritating solid aerosols and / or liquids.
P3		Protects from solid aerosols and / or liquids listed as toxic.

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.

CLASSIFICATION OF THE FILTERS

Class	FFP1	FFP2	FFP3
% Minimum level of filtration	80 %	94 %	99 %
Total Inward Leakage (TIL)	22 %	8 %	2 %
Nominal Protection Factor (NPF)	4.5	12.5	50
Assigned Protection Value (APV)	4	10	20

- **NIOSH (US National Institute for Occupational Safety) 42 CFR Part84**

Filtering facial parts, multiple levels of protection (non exhaustive list):

- **NIOSH 95** : Filter at least 95% of the particles (non-oily) suspended in the air.
- **NIOSH 99** : Filter at least 99% of the particles (non-oily) suspended in the air.



USER GUIDE FOR BREATHING APPARATUS FILTER FOR POLLUTING SUBSTANCES

Each toxic substance has an occupational concentration limit, beyond which respiratory protection is essential. These values can be expressed in ppm (parts per million) or mg/m³. There is a limit value for exposure measured at 8 hours (OEL), and a limit value for short-term exposure measured over 15 minutes (STEL).

Substances	n°CAS	Filter	p.p.m.	AVE mg/m ³	ELV mg/m ³	Half mask	Full mask
Acetaldehyde	75-07-0	Ax	100	180		●	●
Acetic acid	64-19-7	A			25	●	●
Acetic anhydride	108-24-7	B			20	●	●
Acetone	67-64-1	Ax	750	1800		●	●
Acetylene	74-86-2	◆					●
Acids with ammonia	/	BK				●	●
Acrolein	107-02-8	Ax+P			0.25	●	●
Acrylic acid	79-10-7	A	10	30		●	●
Acrylonitrile	107-13-1	A	4	9		●	●
Alcohols	/	A/Ax				●	●
Allyl alcohol	107-18-6	A			5	●	●
Allyl bromide	105-95-6	A				●	●
Allyl chloride	107-05-1	Ax			3	●	●
Aluminum	557-40-4	P		10	22	●	●
Aluminum	7429-90-5	P				●	●
Ammonia	7664-41-7	K	25	18		●	●
Ammyl acetate	/	A	100	30		●	●
Ammyl alcohol	71-41-0	A	100	380		●	●
Ammyl butyrate	/	A				●	●
Ammyl formate	638-49-3	A				●	●
Ammyl nitrate	1002-16-0	A				●	●
Aniline	62-53-3	A	2	10		●	●
Anthracene	120-12-7	P				●	●
Antimony	7440-36-0	P		0.5		●	●
Aqua regia	/					●	●
Argon	7440-37-1	◆					●
Aromatic amine	/	A				●	●
Arsenic	7440-38-2	P			0.2	●	●
Arsine	7784-42-1	AB+P	0.05	0.2		●	●
Asbestos	/	P		0.1 fibres/cm ³		●	●
Barium	7440-39-3	P		0.5		●	●
Bauxite	/	P				●	●
Benzene	71-43-2	A			30	●	●
Benzidine	92-87-5	A+P				●	●
Benzoic acid	65-85-0	A+P				●	●
Benzole	/	A				●	●
Benzoquinone	/	A+P	0.1	0.4		●	●
Benzyl bromide	100-39-0	A				●	●
Benzylamine	100-46-9	A				●	●
Beryllium	7440-41-7	P			0.002	●	●
Boroethane	19287-45-7	B+P	0.1	0.1		●	●
Boron fluoride	7637-07-2	B+P		2.5		●	●
Bromacelone	/	A				●	●
Bromochloromethane	74-97-5	Ax+P	20	1050		●	●
Bromine	/	B			0.7	●	●
Bromobenzene	/	A				●	●
Bromoethane	74-96-4	Ax	200	890		●	●
Bromofome	75-25-2	A			5	●	●
Butadiene	105-99-0	Ax			2200	●	●
Butane	106-97-8	◆					●
Butyl acetate	123-86-4	A	150	710		●	●
Butyl alcohol	71-36-3	A	100	360		●	●
Butyl butyrate	109-21-7	A				●	●
Butylamine	109-73-9	K			15	●	●
Butylene	106-98-9	Ax				●	●
Cadmium	7440-43-9	P		0.05		●	●
Cadmium oxide	1306-19-0	P			0.05	●	●
Carbon disulphide	75-15-0	Ax	10	30		●	●
Carbon monoxide	/	◆	50	55			●
Carbonic acid	/	◆					●
Carborundum	409-21-2	P				●	●
Caustic soda	/	P		2		●	●
Chlorine	7782-50-5	B			3	●	●
Chloroacetaldehyde	107-20-0	A			3	●	●
Chlorobenzene	108-90-7	A	10			●	●
Chlorobutadine	/	Ax	10	36		●	●
Chloroethane	75-00-3	Ax	100	2600		●	●
Chloroform	67-66-3	Ax	5	25		●	●
Chloropicrin	76-06-2	A	0.1	0.7		●	●
Chloroprene	126-99-8	Ax	10	36		●	●
Chlorotrifluoride	7790-91-2	B				●	●
Chromic acid	7738-94-5	BE+P		0.4		●	●
Chromium	7440-47-3	P		0.5		●	●
Coal	/	P				●	●
Cobalt	7440-48-4	P		0.1		●	●
Copper	7440-50-8	P		2		●	●
Cotton	/	P		0.2		●	●
Cresols	1319-77-3	A	5	22		●	●
Cyanogen bromide	506-68-3	B+P				●	●
Cyanogen chloride	506-77-4	B			0.6	●	●
Cyclohexane	110-82-7	A	300	1050		●	●
Cyclohexanol	108-93-0	A	50	200		●	●
Cyclohexanone	108-94-1	A	25	100		●	●
Decyl hydride	124-18-5	A				●	●
Diaminoethane	107-15-3	K			25	●	●
Diazomethane	334-88-3	A			0.4	●	●
Dibutyl ether	142-96-1	Ax+P	10	40		●	●
Dichloroethane	107-06-2	Ax	5	20		●	●

- ◆ : Use an insulating filter
 ● : Half-mask
 ● : Full mask

Substances	n°CAS	Filter	p.p.m.	AVE mg/m ³	ELV mg/m ³	Half mask	Full mask
Dichloroethylene	/	A			30	●	●
Dichloromethane	75-09-2	Ax+P	100	360		●	●
Dichlorofluoromethane	75-43-4	◆	10	40			●
Diethylamine	109-89-7	Ax			30	●	●
Diethylether	60-29-7	Ax			1200	●	●
Dimethylaniline	121-69-7	A	5	25		●	●
Dimethylether	115-10-6	Ax				●	●
Dimethylhydrazine	57-14-7	K	0.1	0.2		●	●
Dimethyltriethylamine	7087-68-5	Ax				●	●
Dimethylpropane	463-82-1	Ax				●	●
Dioxane	123-91-1	A	10	35		●	●
Esters	/	A/Ax				●	●
Ethane	74-84-0	◆					●
Ethanol	64-17-5	A			1900	●	●
Ethanolamine	141-43-5	A	3	8		●	●
Ethers	/	A/Ax				●	●
Ethyl acetate	141-78-6	A	400	1400		●	●
Ethyl alcohol	64-17-5	A			1900	●	●
Ethyl bromide	/	Ax	200	890		●	●
Ethyl butyrate	105-54-4	A				●	●
Ethyl chloride	75-00-3	Ax	100	2600		●	●
Ethyl chloroacetate	105-59-3	Ax				●	●
Ethyl ether	60-29-7	Ax			1200	●	●
Ethyl formate	109-94-4	Ax	100	300		●	●
Ethyl iodide	75-03-6	A				●	●
Ethyl nitrate	109-95-5	Ax	100	310		●	●
Ethyl sulfate	/	A				●	●
Ethylamine	75-04-7	K	10	18		●	●
Ethylene	74-85-1	◆					●
Ethylene dibromide	/	A				●	●
Ethylene dichloride	107-06-2	A				●	●
Ethylene imine	151-56-4	K			1	●	●
Ethylene oxide	75-21-8	Ax	1			●	●
Firesmoke	/	AB+P		5		●	●
Fluorine	14762-94-8	B			2	●	●
Formaldehyde	50-00-0	B	0.5			●	●
Formaldehyde	50-00-0	B			3	●	●
Formol	50-00-0	B				●	●
Freon	/	AB				●	●
Furfural	98-01-1	A			20	●	●
Gasoline vapors	/	A		1000		●	●
Glycol	107-21-1	A				●	●
Helium	7440-59-7	◆					●
Heptane	142-82-5	A	400	1600		●	●
Hexane	110-54-3	A	50	170		●	●
Hexanol	/	A			410	●	●
Hexon	108-10-1	A				●	●
Hydrazine	302-01-2	K+P	0.1	0.1		●	●
Hydrobromic acid	233-113-0	B+P				●	●
Hydrocarbons	/	A		1000		●	●
Hydrochloric acid	7647-01-0	B			7.5	●	●
Hydrocyanic acid	74-90-8	B	2	2		●	●
Hydrofluoric acid	7664-39-3	B+P			2.5	●	●
Hydrogen	/	◆					●
Hydrogen peroxide	7722-84-1	B				●	●
Hydrogen phosphide	7803-51-2	AB	0.1	0.13		●	●
Hydrogen selenide	7783-07-5	AB	0.02	0.08		●	●
Hydrogen sulfide	7783-06-4	AB	5	7		●	●
Indium	7440-74-6	P			0.1	●	●
Insecticide	/	AB+P				●	●
Iron oxide	/	P			5	●	●
Isocyanates	/	AB+P	0.02	0.05		●	●
Isopropyl alcohol	67-63-0	A			980	●	●
Ketene	/	◆	0.5	0.9			●
Ketones	/	A/Ax				●	●
Lead (vapours)	/	A+P		0.1		●	●
Liquid pesticides	/	AB+P				●	●
Manganese	7439-96-5	P		1		●	●
Mercury	7439-97-6	Hx+P		0.05		●	●
Methanol	67-56-1	Ax	200	260		●	●
Methyl acetate	79-20-9	Ax	200	610		●	●
Methyl alcohol	67-56-1	Ax	200	260		●	●
Methyl bromide	74-83-9	Ax	5	20		●	●
Methyl butyl ketone	/	A	5	20		●	●
Methyl butyrate	623-42-7	A				●	●
Methyl chloride	74-87-3	Ax	50	105		●	●
Methyl ether	115-10-6	Ax				●	●
Methyl ethyl ketone	78-93-3	A			590	●	●
Methyl formate	107-31-3	Ax	100	250		●	●
Methyl iodide	74-88-4	A			28	●	●
Methyl nitrate	588-58-3	A/Ax	100	250		●	●
Methyl propyl ketone	107-87-9	A	200	700		●	●
Methylamine	74-89-5	K			12	●	●
Methylaniline	100-61-8	A	0.5	2		●	●
Methylbutane	78-78-4	Ax				●	●
Methylene bromide	/	A				●	●
Methylene chloride	75-09-2	Ax			40	●	●
Methylene iodide	75-11-6	A				●	●
Methylpropane	75-28-5	Ax				●	●

Substances	n°CAS	Filter	p.p.m.	AVE mg/m ³	ELV mg/m ³	Half mask	Full mask
Methylsulphate	/	A					●
Monochloroacetone	/	A				●	●
Monomer styrene	100-42-5	A	50	215		●	●
Naphthylamine	/	P	10	50		●	●
Neon	7440-01-9	◆					●
Nickel	7440-02-0	P		1			●
Nickel carbonyl	13463-39-3	◆					●
Nitric acid	7697-37-2	B+P	2	5		●	●
Nitroaniline	/	B+P		3		●	●
Nitrobenzene	98-95-3	A	1	5		●	●
Nitroethane	79-24-3	A	100	310		●	●
Nitrogen	7727-37-9	◆					●
Nitroglycerine	55-63-0	A	0.15	1.5		●	●
Nitromethane	75-52-5	B	100	250		●	●
Octane	111-65-9	A		0.1		●	●
Oleum	8014-95-7	B+P				●	●
Oxalic acid	144-62-7	B+P		1		●	●
Ozone	10028-15-6	AB	0.1	0.2		●	●
Palladium	7440-05-3	P				●	●
Parasiticide	/	AB+P				●	●
Parathion	56-38-2	AB+P		0.1		●	●
Pentachloroethane	76-01-7	A				●	●
Pentane	109-66-0	Ax	600	1800		●	●
Perchloroethylene	127-18-4	A	50	335		●	●
Phenol	108-95-2	A	5	19		●	●
Phenylhydrazine	100-63-0	A			20	●	●
Phosgene	75-44-5	B			0.4	●	●
Phosphoric acid	7664-38-2	B+P		1		●	●
Phosphoric esters	/	AB+P				●	●
Phosphorus	7723-14-0	P		0.1		●	●
Phosphorus trichloride	7719-12-2	B+P		3		●	●
Picric acid	88-89-1	A+P		0.1		●	●
Polyester resin	/	AB				●	●
Powder pesticides	/	P				●	●
Propane	74-98-6	◆					●
Propine	74-99-7	◆	1000	1650			●
Propyl acetate	109-60-4	A	200	840		●	●
Propyl alcohol	71-23-8	A	200	500		●	●
Propyl chloride	540-54-5	Ax				●	●
Propyl ether	111-43-3	A				●	●
Propyl formate	110-74-7	A				●	●
Propyl sulphide	/	A				●	●
Pyridine	110-86-1	A	5	15		●	●
Selenium	7782-49-2	P	0.05	0.2		●	●
Short chain amine	/	K				●	●
Silicon chloride	10026-04-7	◆					●
Silver	7440-22-4	P		0.1		●	●
Sodium carbonate	497-19-8	P				●	●
Solvents (general)	/	A/Rx				●	●
Stibine	/	◆					●
Sulfur (hexafluoride)	2551-62-4	P	1000	6000		●	●
Sulfur dioxide	231-195-2	E	2	5		●	●
Sulfur hexafluoride	2551-62-4	AB+P				●	●
Sulfur trioxide	7446-11-9	B+P				●	●
Sulfure chloride	10025-67-9	B+P			6	●	●
Sulfure pentafluoride	/	B+P			0.25	●	●
Sulfuric acid	7664-93-9	B+P		1		●	●
Sulphurylchloride	7791-25-5	B+P				●	●
Talc	14807-96-6	P				●	●
Tellurium	13494-80-9	P		0.1		●	●
Tetrabromethane	/	A	0.1	1.4		●	●
Tetrachloroethane	/	A	1	7		●	●
Tetrachloroethylene	127-18-4	A			670	●	●
Tetraethyl lead	78-00-2	A		0.1		●	●
Tetramethyl lead	75-74-1	A		0.15		●	●
Tetranitromethane	509-14-8	B	1	8		●	●
Thallium	7440-28-0	P		0.1		●	●
Thionyl chloride	7719-09-7	B+P				●	●
Tin	7440-31-5	P		0.1		●	●
Toluene	108-88-3	A	100	375		●	●
Toluidine	/	A			22	●	●
Trichloroethane	/	A	300	1650		●	●
Trichloroethylene	79-01-6	A	75	405		●	●
Trichloromethane	67-66-3	Ax+P			1900	●	●
Triethylamine	121-44-8	A			40	●	●
Trifluoromethane	75-46-7	AB				●	●
Trimethylamine	75-50-3	K			25	●	●
Vanadium	7440-62-2	P		0.05		●	●
Vinyl acetate	108-05-4	A	10	30		●	●
Vinyl bromide	/	Ax				●	●
Vinyl chloride	75-01-4	Ax			6	●	●
Welding vapours	/	B+P				●	●
Xylene	/	A	100	435		●	●
Xylidine	/	A	2	10		●	●
Xylophene	/	A+P				●	●
Xyltol bromide	/	◆					●
Xyltol chloride	/	A+P				●	●
Zinc	7440-66-6	P				●	●
Zinc oxide	/	P	10	5		●	●



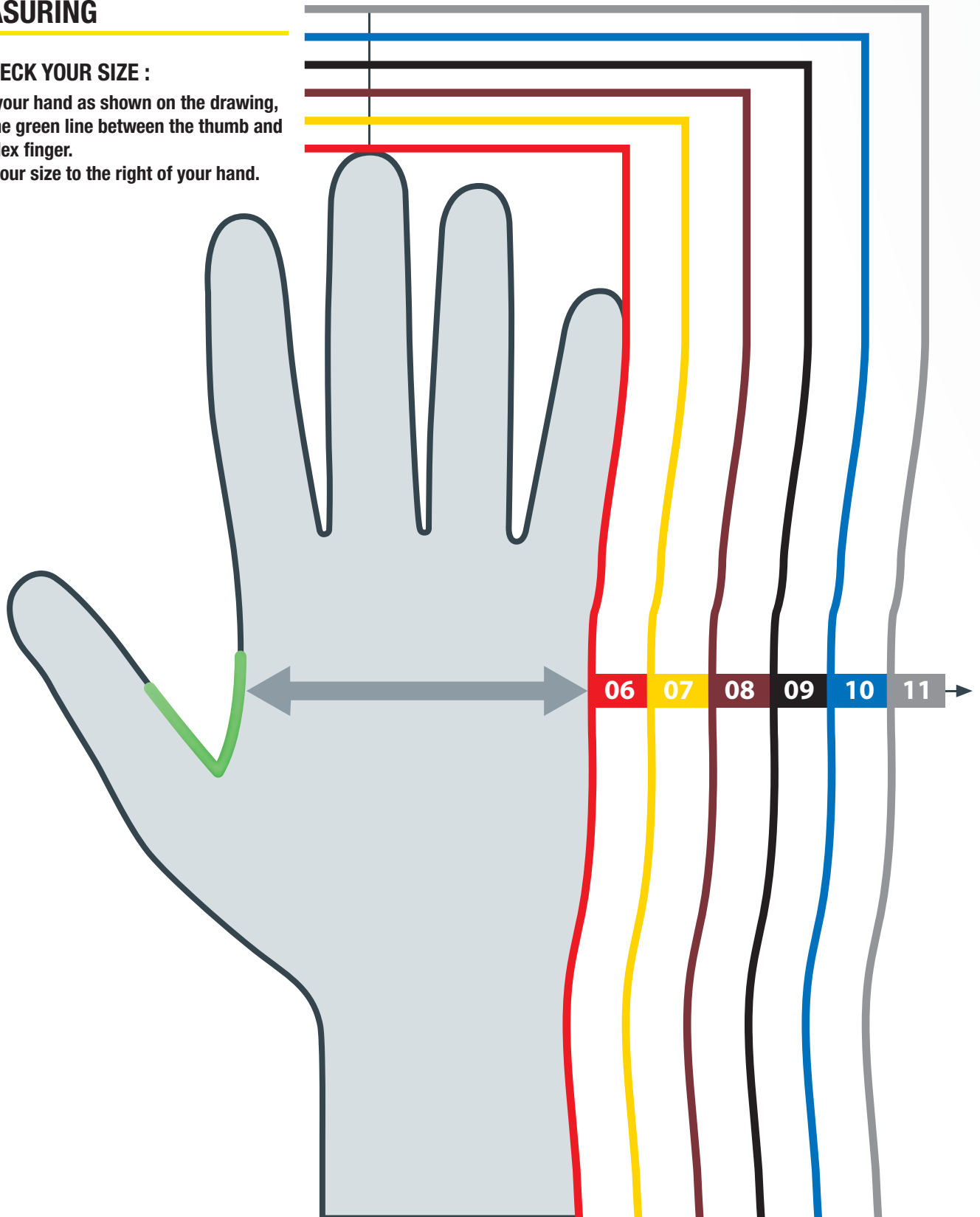
HAND PROTECTION

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

EN420 ► GENERAL REQUIREMENTS

- **Conform to harmlessness** (pH, chrome VI levels, etc...).
- **Conform to the size charts** (see chart on below).
- **Pass the dexterity test**
- **Conform to the labelling, information and identification instructions.**

SIZES AS PER STANDARD EN420

Glove size	Hand dimensions (mm)		Minimal glove length
	Palm circumference	Length	
6	152	160	220
7	178	171	230
8	203	182	240
9	229	192	250
10	254	204	260
11	279	215	270

► STANDARDIZED LABELING/IDENTIFICATION

All our products meet the requirements in directive 89/686/CEE. Each is clearly identified by a standardized label, on which you will see:

- our brand logo ;
- the product reference ;
- the size ;
- an information tag indicating that instructions are available for the product ;
- the standardization pictogram(s) with their performance ratings.

And of course the data sheet for the product and the statement of compliance are available by simple request and on line 24 hours/day on our Web site: www.deltaplus.eu



EN388

► 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.

PERFORMANCE LEVELS	REQUIREMENTS
0 to 4 0 to 5 0 to 4 0 to 4	
	RESISTANCE TO PERFORATION Force required to pierce the sample with a standardized punch.
	RESISTANCE TO TEARING Maximum force required to tear the sample.
	RESISTANCE TO CUTTING WITH A BLADE Number of cycles required to cut the sample at constant speed.
	ABRASION RESISTANCE Number of cycles required to damage the sample at constant speed.

TEST	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
ABRASION RESISTANCE (number of cycles)	100	500	2 000	8 000	-
BLADE CUT 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	-



EN511

► COLD 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. This cold can be from climatic conditions or industrial activity.

PERFORMANCE LEVELS	REQUIREMENTS
0 to 4 0 to 4 0 to 1	
	IMPERMEABILITY TO WATER
	RESISTANCE TO CONTACT COLD
	RESISTANCE TO CONVECTIVE COLD





HAND PROTECTION



EN407

► HEAT AND FIRE RISK

The EN407 standard specifies the test methods, the general requirements, the thermal performance and the labelling of gloves 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

0 to 4 0 to 4 0 to 4 0 to 4 0 to 4 0 to 4

REQUIREMENTS

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.

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, and A for other welding processes.

EN374-1

► AGAINST THE RISKS OF MICRO-ORGANISMS & CHEMICAL RISKS

Standard EN374-1, 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, at a non molecular scale, 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.


• Permeation (tested as per standard EN374-3):


Process by which a chemical product diffuses through the material of a protective glove, at the molecular scale.

A glove is considered resistant to chemical products if it obtains a performance index to permeation at least equal to 2 for three test chemical products included in the following list of chemical products:

CODE LETTER	CHEMICAL PRODUCT
A	Methanol
B	Acetone
C	Acetonitrile
D	Dichloromethane
E	Carbon disulfide
F	Toluene
G	Diethylamine
H	Tetrahydrofuran
I	Ethyl acetate
J	n-Heptane
K	Caustic soda 40 % (NaOH or sodium hydroxide)
L	Sulphuric acid 96 %




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

The glove will then carry the following pictogram: 

Failing compliance with this requirement, the glove will carry the following pictogram: 

Examples of application:

The field of use is decisive, as depending on the case, the glove must only be water and airtight, resistant to micro-organisms, sealed against splashes of low concentrate chemical products, resistant to low concentrate chemical products or against chemical products. It is therefore highly important to consult the recommended fields of use.

EN374-1 GENERAL REQUIREMENTS	TEST METHODS	EXAMPLES OF USES APPLICATIONS	MARKINGS	CATEGORIES AS PER 89/686/CEE
		Waterproof glove for very frequent and prolonged use (dish washing gloves)	None	CAT I For Minor Risks
		Glove against micro-organisms (bacteria, fungi), air and water proof		CAT II For Intermediary Risks
		Glove offering low protection against chemical products (occasional contact), air and water proof		CAT III For irreversible Risks
	EN374-1 EN374-2 EN374-3	Glove against chemical products (direct and prolonged contact), air and water proof		CAT III For irreversible Risks

ISO2859 (DISPOSABLE GLOVES)

Determine the acceptable quality level (AQL): AQL 1.5 for instance

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 of the Commission of 14 January 2011 repealing the directive 2002/72/EC.

PVC/Vinyl or even Latex/Nitrile gloves (unless local legislation exists) are directly subject to this directive.

It defines:

- positive 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 (10 mg/dm² of material or 60 mg/kg of food).

Directive 85/572/EC 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): Stimulant A ;
- Acid food (pH ≤ 4.5): Stimulant B ;
- Alcoholic foods: Stimulant C ;
- Fatty foods: Stimulant D.
- Dry foods: Stimulant E.





HAND PROTECTION

CHEMICAL RESISTANCE TABLE

	n°CAS	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	/	***	***	***	***
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	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	*	*		
Dead lime	/	***	***	***	***
Diacetone alcohol	/	***	***		*
Dibutyl ether	142-96-1		*	***	
Dibutyl phthalate	84-74-2	**	*	***	
Diehanolamine	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	*	*	***	*
Ethylene dichloride	/		*	***	*
Ethylene glycol	107-06-2			*	
Fertilisers	107-21-1	***	***	***	***
Fish and shellfish	/	***	***	***	***
Fixing agents	/	***	***	***	***
Fluorides	/	***	***	***	***
Formaldehyde	50-00-0	***	***	***	***
Fuel oil	/		*	***	*
Fuels	/		*	***	*
Furoil (furfural or furaldehyde)	98-01-1	***	**		
Gas-oil	/		*	***	*
Gasoline	/		**	***	*
Glycerin	56-81-5	***	***	***	***
Glycerophalic paint	/		*	***	*
Glycols	107-21-1	***	***	***	***
Hair bleaching agents	/	***	***	***	***
Hair-cutting products	/	***	***	***	***
Hexane	110-54-3		*	***	*
Household detergents	/	**	***	**	**
Hydraulic fluids (esters)	/	***	***	***	*
Hydraulic oils (petrol)	/	***	*	***	*
Hydrobromic acid	10035-10-6	***	*	*	*
Hydrogen peroxide	/	*	***	***	

Not recommended Average * Good ** Very good ***

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.

	n°CAS	Natural latex	Neoprene	Nitrile	PVC vinyl
Isobutyl alcohol	78-83-1	***	***	***	***
Isobutyl ketone	/	***	***		
Kerosene	/		*	***	*
Lard oil	/		***	***	*
Linseed oil	/		***	***	*
Lubricating 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	74-89-6	***	**	***	***
Methylamine	100-61-8	*	*	***	***
Methylcyclopentane	96-37-7		*	***	*
Methylene chloride	75-09-2		*	*	
Methylformate	/	*	***	*	*
Milk and dairy products	/	*	***	***	
Mineral greases	/		*	***	*
Mono ethanol amine	141-43-5	***	***	***	***
N-butylamine	109-73-9	***	***	***	***
Naphta	/		*	***	*
Naphtalene	91-20-3		*	**	*
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	/	***	***	***	***
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	/		***	***	*
Stearic chloride	/	*	***	***	***
Stearic acid	57-11-4	**	***	**	**
Styrene	100-42-5		*	*	*
Sulphites, bisulphites, hyposulphites	/	***	***	***	***
Sulphuric ether (pharmacy)	/	*	***	***	*
Tartaric acid	/	***	***	***	***
Tetrachloroethylene	127-18-4		*	**	
THF = tetrahydrofurane	109-99-9	**	*		
Toluene	108-88-3	*	*	**	*
Tributyl phosphate	126-73-8	*	**	**	*
Trichloroethylene	79-01-6		*	*	
Tricresyl phosphate	1330-78-5	***	**	***	**
Trinitrobenzene	/		*	**	*
Trinitrotolol	/		*	**	*
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	***	***	***	***



BODY PROTECTION

TECHNICAL INFORMATION

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.





BODY PROTECTION

CHEMICAL PROTECTIVE CLOTHING



EN14126 ► PROTECTION 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.



EN13982-1 TYPE 5 ► PROTECTIVE CLOTHING FOR USE 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
EN13982-1	5	Against dust (asbestos)
EN14605	4	Against mists
EN14605	3	Against sprays

EXAMPLES OF APPLICATIONS

Applications	Risks	Level of protection
Work Maintenance	Fouling	Category I / Non PPE
Industrial cleaning	Exposure to hazardous chemical substances and particles	Type 6 Type 5
Asbestos abatement / removal (dust > 1 micron)	Contact with particles or fibres	Type 5
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides / fertilizers...)	Contact with harmful elements	Type 4
Paint spraying (Solvents)	Contact with low-concentrate aerosols	Type 4
Paint spraying (Preparation / Mixing)	Contact with high concentrate aerosols	Type 3
Laboratories / Chemical Industries	Projection of chemical products	Type 3
Emergency / Rescue Personnel	Bacteriological contamination	Type 4-B Type 3-B

TESTS									
General performance	Tests & Specific performance	Level of protection							
		1a	1b	1c	2	3 ^a	4 ^a	5	6 ^a
Performance requirements for the whole garment	Internal pressure	X	X	X	-	-	-	-	-
	Leak to interior	-	X ^b	X	X	-	-	-	-
	Penetration by a jet of liquid	-	-	-	-	X	-	-	-
	Penetration by a spray	-	-	-	-	X	X	-	-
	Against solid particles	-	-	-	-	-	-	X	-
	Penetration by a spray	-	-	-	-	-	-	-	X
Performance requirements for the constituent materials of the garment	Abrasion / Tearing / Perforation / Seams	X	X	X	X	X	X	X	X
	Resistance to tensile strength	X	X	X	X	X	X	-	X
	Resistance to flame	X	X	X	X	X	X	X	X
	Resistance to cracking by bending	X	X	X	X	X	X	X	-
	Resistance to cracking by bending at -30°C	X	X	X	X	X	X	-	-
	Resistance to permeation according to:	X	X	X	X	X	X	-	-
	Resistance to penetration by liquids	-	-	-	-	-	-	-	X
	Impermeability to liquids (repulsion)	-	-	-	-	-	-	-	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).

b - Applicable for suits whose respiratory mask is separate and removable.

HEAT PROTECTIVE CLOTHING

TASOUB



EN11611

A1 Class 2

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.

► PROTECTION USED IN WELDING AND ALLIED PROCESSES

This standard sets out 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.

MAICO

EN14116



3 / 501 / 75

Indice : 1 / 2 or 3

Nb : Number of washes

T0 : Service temperature

I : Industrial wash

flames, in conditions with no significant heat danger.

► PROTECTION AGAINST HEAT AND FLAME

This standard sets out the performance requirements for limited flame spread materials and material assemblies used in protective clothing. Limited flame spread materials and material assemblies are used to make protective clothing in order to reduce the risks of flammability of the garment and the dangers it may cause. They are suitable for protection against accidental contact with small igniting

MATERIALS	MATERIALS WHICH DO NOT SPREAD FLAME...
index 1	...but which may form a hole on contact with a flame
index 2	...and do not form a hole on contact with a flame
index 3	...and do not form a hole on contact with a flame. They also give only limited after-flame (≤ 2s)

TONC3

EN11612



A1 B1 C1 D1 E1 X

MAICO

EN531



A B1 C1 X X

► PROTECTION FOR WORKERS EXPOSED TO HEAT

Protection against heat and flame.

These standards specify 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:

TESTS	CODES	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





BODY PROTECTION

TECHNICAL PROTECTIVE CLOTHING

EN340

► 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.



EN471

► 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 ²	0.50 m ²	0.14 m ²
Retroreflective material (Bands)	0.20 m ²	0.13 m ²	0.10 m ²

Background material:

Yellow, orange/red or red fluorescent material intended to be highly conspicuous.

Retroreflective material:

Classified into 2 levels. The highest level of retroreflection gives the best contrast and visibility of high-visibility clothing seen in darkness, under headlamps.

Marking :

STRADA

EN471



3.2

X : Class of high visibility surface (from 1 to 3)

X : Performance level of the retro-reflective material (1 to 2)

EN13356

► VISUAL ACCESSORIES FOR NON PROFESSIONAL USE

This standard specifies optical performance requirements for accessories that are worn, attached to, or carried by individuals and designed for non-professional use. The visualization accessories conforming to this standard are intended to visually indicate the presence of the user when illuminated by vehicle headlights on unlit roads. This standard does not apply to clothing.



EN381

► PROTECTION FOR 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:

EN381-5 Specifies the requirements for leg protectors.

EN381-7 Specifies the requirements for protective gloves.

EN381-9 Specifies the requirements for protective gaiters.

EN381-11 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).

Marking:

EPICEA 3

EN381-11



Class 0

MELEZE 3

EN381-5



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



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. And antistatic clothing are 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 $10^8\Omega$, for example, by wearing appropriate footwear such as the safety shoes stated in EN ISO 20345, or by other suitable means.

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.



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 and are not only for outdoor use such as in the construction industry, but 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.



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.

TESTS				
	Code	EN343	EN342	EN14058
Class of thermal resistance (in $m^2 \cdot K/W$)	R_{ct}	-	-	X
Class of water vapour resistance (in $m^2 \cdot Pa/W$)	R_{et}	X	-	-
Class of air permeability (in mm/s)	AP	-	X	X (optional)
Resistance to water penetratio (in Pa)	WP	X	X (optional)	X (optional)
Resultant effective thermal insulation (in $m^2 \cdot K/W$) Measured on a moving manikin	I_{cler}	-	X	X (optional)
Effective thermal insulation (in $m^2 \cdot K/W$) Measured on a stationary manikin	I_{cle}	-	X (optional)	X (optional)





BODY PROTECTION

• THERMAL RESISTANCE (R_{ct}) IN $M^2.K/W$:

Measurement of the thermal insulation provided.

Divided into 3 classes (from 1 to 3) from the least insulating to the most insulating. The higher the value, the greater the thermal insulation.

• WATER VAPOUR RESISTANCE (R_{et}) IN $(M^2.PA)/W$:

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 3 classes (from 1 to 3) from the least breathable to the most breathable.

• 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.

• 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 3 levels (1 to 3) from the least impermeable to the most impermeable.

• L'ISOLATION THERMIQUE RÉSULTANTE DE BASE :

Measured on moving dummy (I_{cle}) or on non moving dummy (I_{cle}).

The thermal insulation coefficient, expressed in $m^2.K/W$, 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 + thermojacket, 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

AMBIENT TEMPERATURE CONDITIONS FOR HEAT BALANCE FOR DIFFERENT LEVELS OF ACTIVITY AND EXPOSURE DURATIONS

Standard applicable	ACTIVITY						
	Insulation m².K/W	Very light Stationary standing 75 W/m²		Wearer moving lightly 115 W/m²		Wearer moving medium 170 W/m²	
		I _{cle} - I _{cler}	8h	1h	8h	1h	8h
EN14058	0.170	19°C	11°C	11°C	2°C	0°C	-9°C
EN14058	0.230	15°C	5°C	5°C	-5°C	-8°C	-19°C
EN342	0.310	11°C	-2°C	-1°C	-15°C	-19°C	-32°C
EN342	0.390	7°C	-10°C	-8°C	-25°C	-28°C	-45°C
EN342	0.470	3°C	-17°C	-15°C	-35°C	-38°C	-58°C
EN342	0.540	-3°C	-25°C	-22°C	-44°C	-49°C	-70°C
EN342	0.620	-7°C	-32°C	-29°C	-54°C	-60°C	-83°C

Marking:



EN14058

X : Class of heat resistance, R_{ct}

X : Class of air permeability, AP (Optional)

X : Class of resistance to water penetration

WP (Optional)

X : I_{cle} of the garment (Optional)

X : I_{cle} of the garment (Optional)

LARVIK	
EN14058	3
	3
	X
	0.270 $m^2.K/W$
	X



EN342

X (undergarment B/C/R) : I_{cle} of the garment

X (undergarment B/C/R) : I_{cle} of the garment

(Optional)

X : Class of air permeability, AP

X : Class of resistance to water penetration WP (Optional)

NORDLAND	
EN342	0.705 $m^2.K/W$ (B)
	X
	3
	X



EN343

X : Resistance to water penetration, WP

X : Water vapour resistance, R_{et}

EN400	
EN343	3
	1

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



FOOT PROTECTION

TECHNICAL INFORMATION

SAFETY SHOES-BOOTS

STANDARDS

EN ISO 20344

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 ► Specification for safety footwear for the workplace.

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 ► Specification for occupational shoes marked «O».

These shoes are different from safety/protective footwear in that they have no protective toe cap for impact and crushing.

EN ISO 61340-4-3

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.

THE PARTS OF A SHOE





FOOT PROTECTION

SIZE CORRESPONDANCE TABLE

Europe	35	36	37	38	39	40	41	42	43	44	45	46	47	48
UK	2	3	4	5	6	6 1/2	7	8	9	10	10 1/2	11	12	13
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	31.0	31.6

• 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
ALL MATERIALS	SB : basic properties	OB : basic properties
CLASS 1 Leather shoes and other materials, except rubber or polymer shoes	S1 : basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	O1 : basic properties plus: - closed back - hydrocarbon-resistant sole - anti-static - energy absorbing heel
	S2 : the same as S1 plus: - waterproof	O2 : the same as O1 plus: - waterproof
	S3 : the same as S2 plus: - puncture resistant sole - studded sole	O3 : the same as O2 plus: - puncture resistant sole - studded sole
CLASS 2 All rubber shoes (fully cured) or all polymer (fully moulded)	S4 : basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	O4 : basic properties plus: - anti-static - energy absorbing heel
	S5 : the same as S4 plus: - puncture resistant sole - studded sole	O5 : the same as O4 plus: - puncture resistant sole - studded sole
HYBRID SHOES Rubber foot (fully cured) or all polymer (fully moulded) / Top leather upper and other materials	SBH : properties specific to hybrid safety shoes	OBH : properties specific to hybrid work shoes

SYMBOLS FOR INDIVIDUAL SPECIFICATIONS

Whole shoe	Puncture resistant sole	P
	Electrical properties :	
	Conductive shoe	C
	Antistatic shoe	A
	Insulating shoe	See EN50321
	Resistance to aggressive environments :	
	Heat-insulated sole	HI
	Sole insulated against cold	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
Outsole	Resistance of the sole penetration and water absorption (shoes in leather and other materials, class 1)	WRU
	Contact-heat resistant outsole	HRO
	Oil-resistant outsole	FO

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



FALL PROTECTION

TECHNICAL INFORMATION

THE CORRECT SELECTION OF FALL ARREST PRODUCTS GIVES PERFECT SAFETY

Fall arrest equipment includes different products which have to be adapted for each risk to ensure the necessary protection. These products (full body harness, fall arrester on anchorage line, work positioning systems, energy absorbers, self-retractable fall arrester, accessories) are governed by the Directive 89/686/EEC and the European standards on Personal Protective Equipment (PPE).

THE HARMONIZED EUROPEAN STANDARDS

All protective equipment against falls from a height are submit to European standards. You will find, below, a summed up presentation of every standard.

GENERAL STANDARDS

EN363 ► **Fall arrest equipment**

Set of personal protective equipment against falls from height, linked to one another and intended to stop a fall. A fall arrest equipment must contain at least a full body harness and a fall arrest equipment.

EN364 ► **Test method**

Describes the different test methods of the various PPE against falls from height, as well as the test equipment.

EN365 ► **General requirements for the instructions for use and the marking**

Description of the marking that must figure on the PPE against falls from height and of the information which must appear on the instructions for use.

SPECIFIC STANDARDS

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.

EN353-1 + CNB VG11.073 ► **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.

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.

EN362 ► **Connector**

Connection element or equipment component. A connector can be karabiner or a snap hook.

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. Maximum length: 2m. **CAUTION:** A lanyard without energy absorber must not be used as a fall arrest equipment.

EN358 ► **Work positioning system**

A work positioning system consists of components (work positioning belt and lanyard) linked to one another to form a complete equipment.

EN813 ► **Seat harnesses.**

EN1891 ► **Sheathed braided rope with a low coefficient of elongation (static ropes).**

EN12841 ► **Rope access system.**

A rope device for work positioning.

EN1496 ► **Rescue equipment**

Rescue lifting devices.

EN567 ► **Equipment for mountaineering and climbing**

Safety requirements and test methods for blockers.

EN341 ► **PPE against falls from height**

Descending devices.





FALL PROTECTION

EN795 : 1996 ► Anchorage devices

Element to which a personal protective equipment can be fastened.
(Standard under development)

CLASS A1 ► NON PPE

Consists of anchorage points designed to be fixed on vertical, horizontal and inclined surfaces (walls, columns, and lintels).

CLASS A2 ► NON PPE

Consists of anchorage points designed to be fixed on inclined roofs.

CLASS B ► PPE

Consists of mobile temporary anchorage devices.

CLASS C ► NON PPE

Consists of anchorage devices fitted with horizontal flexible anchorage lines 'life line' allowing inclination : 15°.

CLASS D ► NON PPE

Consists of anchorage devices fitted with horizontal rigid anchorage rails.

CLASS E ► PPE

Consists of dead weight anchors to be used on horizontal surfaces, allowing inclination : 5°.



OTHER STANDARDS

EN1498 ► RESCUE STRAP

Directive 94/9/EC for equipment intended for use in potentially explosive environments

EN13463-1 ► NON-ELECTRICAL EQUIPMENT FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

basic method and requirements (risk analysis).

EN13463-5 ► NON-ELECTRICAL EQUIPMENT FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

protection constructional safety "c" regarding the main mechanical devices: joints, bearings, gears, belts, clutch chains, brakes, coupling devices, conveyor belts

It sets out the requirements to be respected for the design and maintenance instructions.

It sets out the requirements and tests to be conducted according to the type of component.



A

ABRASION

Abrasion means wear through the action of friction. For the mechanical standard EN388 for gloves, EN343 for clothing and EN ISO20344 for shoes, the test consists of knowing when the product will deteriorate. The level is thus used to provide an indication of resistance and longevity.

ABS

Acrylonitrile Butadiene Styrene (ABS) is a thermoplastic used in industry to make rigid, light and moulded products. Material used to make the shells of safety helmets.

ACCOMMODATIVE (REFLEX)

The crystallin acts as a lens enabling focusing in distance thanks to a muscle. Presbyopia (near-sightedness) is caused when it does not work properly. The accommodative reflex ensures clear vision.

ACETATE

A fibre obtained by the action of artificial resins on cellulose and with: low weight, excellent optical properties, heat stability, good resistance to most chemical products. It does have some disadvantages however: low resistance to abrasion and scratching, risk of ignition near a heat source greater than 100°C.

ACRYLIC

Synthetic fibre often resembling wool: Very high elasticity (so does not crease) - Very lightweight - Heat insulation equal to wool - Very high resistance to abrasion and traction. It is thermoplastic, has low absorbent power and dries very quickly.

ACTIVATED CARBON

Activated carbon, or absorbent carbon or medicinal carbon, is carbon which has been treated by pyrolysis to increase its absorbency. The basic material used is often coconut, but it can be wood, bone or some other carbon.

A grain of activated carbon has a network of pores and channels similar in dimension to molecules. Activated carbon creates a chemical principle enabling toxic gas / vapour molecules to be captured.

AEROFRESH CONTROL

System developed by Delta Plus, used to ventilate the shoe at the instep and ankle by means of an air vent.

AEROSOLS

In chemistry, an aerosol is a set of solid or liquid particles, in suspension in a gaseous medium. An aerosol is a suspension of very fine particle (colloidal size) in a gas (risk of contamination of the air ways).

A cloud is an example of an aerosol. Other examples are mist, smoke or the cloud of dust given off when you shake out a rug.

AEROSOLS AND AQUEOUS FOGS

Small droplets produced during pulverization.

ALUMINISED (LINING)

The DELTALU aluminised lining combines heat insulation performance with lightness ; polyester wad on aluminium foil batting (perforated). It is a real barrier inside garments protecting against the cold and the wind.

ANCHOR LINE

Element on which a sliding fall arrester moves. The anchor line can be a rope, a cable or a rail.

ANCHORAGE POINT

Element to which a fall arrest system can be connected.

ANTI-MIST (AB)

Surface treatment for lenses realized by dip coating the lens to prevent the formation of mist. This treatment is incompatible with mirror treatment of the lens itself.

ANTI-SCRATCH (AR)

Surface treatment of lenses to prevent superficial scratches. This treatment is obtained by dipping the lens in a «silicone» based solvent. It is colourless on the lense and does not alter vision.

ANTISTATIC

Property of a product, which prevents or limit the formation of static electricity. it is often requested in industrial environments for the risks of electrical discharge.

Antistatic protective clothing are mainly used in explosive risk environments such as: chemical plants, refineries, weapons factories, mines. They are also widely used to protect materials sensitive to electrical discharge such as on electronics manufacturing or semi-conductor assembly sites. Finally, they are used in controlled-atmosphere sites such as automobile paint workshops, the aim being to prevent the emission of particles which may be deposited on bodywork paint.

APV

Assumed Protection Value: complete and precise method for measuring the hearing protector attenuation

- Attenuation per frequency (63Hz, 125Hz, 250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz & 8000Hz).
- Mean Attenuation: mean attenuation every 16 people tested.
- Standard Deviation: statistical presentation of the results.
- Assumed Protection: minimum attenuation at each Frequency level.

It is computed by subtracting the standard deviation from the mean attenuation for each considered frequency.

APV

Assigned Protection Value.

Formula used to define the level of protection achieved in the workplace by 95% of operators trained in the wearing of respiratory protective devices or RPD and properly using after control a well maintained and adjusted device.

Maximal concentration allowed corresponds to: : NPF x OEL.

AQL

Initials which mean «Average Quality Level». The standard ISO N° ISO2859 determines sampling for controls batch by batch, the AQL thus gives the maximum number of gloves with defects on 100.

ARAMIDES

Thermostable fibres used mainly in heat-proof applications . There are two types: para-aramides such as Kevlar® (anti-cut & resistant to flame and heat) and meta-aramides such as Nomex® (antistatic & resistant to flame and heat).



GLOSSARY

ARCH SUPPORT SYSTEM

This is an anatomical piece which provides rigidity to the instep and gives greater stability to the foot.

ARMBAND

Armbands are pieces of fabric worn around the arm. Fluorescent armbands are accessories, used for greater visibility. Attention these are not PPE.

ASSEMBLY

Assembly is the stage which consists of assembling the shoe upper on the form with the insole. Manufacturing occurs when this is assembled to the various midsoles and outsoles.

ATEX

This European regulation, which aims to improve the health and safety of workers at risk from explosive environments, is the result of the application of 2 directives:

- Directive 1999/92/EC for the protection of workers potentially at risk from explosive environments.
- Directive 94/9/EC for machines intended for use in explosive environments.

PPE are not governed by these two directives, they are even explicitly excluded from the Directive 94/9/EC (Chapter I, Section 4). They may be used in ATEX regulated zones as part of an overall explosion risk prevention system.

Directive 89/686/EEC for PPE takes into account the risks of explosion in Annex II, paragraph 2.6. : "PPE for use in explosive environments.

PPE for use in explosive environments must be designed and manufactured in such a way that it cannot be the seat of an electric or electrostatic arc or result from an impact, capable of igniting an explosive mixture."

ATTACHMENT

(DORSAL) Connection point of a fall arrester on a harness.

(STERNAL) Connection point of a fall arrester on a harness.

(LATERAL) Connection point of a work restraint system or work positioning.

(VENTRAL) Connection point of a work restraint system or work positioning.

B

BACK PAD

Element of a harness used to cross the straps at the back and position the D-ring at the correct height.

BIAS (FABRIC ON THE)

It is the use of a fabric part in its transversality (angle 45°) in order to obtain a flexible and deformable part. Examples of applications: strips or ribbons to be adapted to rounded forms (edge of a cuff, inside belt of trousers, etc.).

BLOUSON

A blouson is a short garment which only covers the torso and hugs the waist. A long jacket is an alternative between a blouson and a parka.

BLUE (LIGHT)

Harmful light emitted between 380 and more than 500 nanometres.

Examples: intense sunlight, light used for the sedimentation of ceramics in dentistry, etc.

BRUSHED

Fabric on which one or both sides have a furry aspect obtained by the brushing operation.

The operation consists of passing the fabric over a rotating drum fitted with metal teasels. This treatment gives the article a soft, thick feel, making it warmer and bulkier, but removes toughness.

BUMP CAP

Bump cap and anti-scalp (EN812 standard). It is a PPE widely used in industry, especially for indoor use to protect the skull against shock contact with hard surfaces that could cause minor injuries.

It can not replace the helmet, in case it is required to wear a helmet with EN397 standard.

BUMPER CAP

Protective toecap designed to protect against premature wear on the front of the sole.

BURSITIS

Bursitis is an occupational illness of the knee, often occurring in tile layers, welders, floor covering layers, etc...

It comes in form of a gradual and slow increase in the volume of a bursa due to repeated microtraumas.

BUTT (LEATHER)

Part corresponding to the croup of the animal at the bottom of the skin (grain).

C

CANVAS (WEAVE)

The plain weave, is the basic fabric weave, and is characterised by inverted and alternating arrangement of the warp yarns on the weft yarns. There is no difference between the right and wrong sides of the fabric. This weave is particularly resistant to abrasion and very easy to waterproof.

CARBON (FIBRE)

The carbon fibre is used in materials for its anti-static properties.

CARROUSEL (INJECTION)

It's a machine with several injection stations (12 18 24 30 36) used to make soles.

CEMENTED (ASSEMBLY)

The most widely used manufacturing process for shoes in general: it consists of gluing the sole to the insole.

CEMENTED (SEAM)

Assembly procedure for seams by hot gluing to guarantee the sealing of seams for coated materials.

CHEST STRAP

Strap used in the design of a harness with the role of maintaining the position of the harness straps on the shoulders in order to prevent any risk of losing the harness in the event of a fall. The chest strap is not obligatory on a harness.

CHIN STRAP

Element used to prevent a safety helmet from falling. It may be simple or with a chin-cup, with two or four fastening points used for work at height.

CHLORINATED (GLOVE)

A washing process for the latex glove, washed in chlorinated water to produce unpowdered gloves. The advantages of unpowdered glove is: it is easier to put the glove on (a velvety contact), improves comfort and reduces the allergenic effect of the natural latex proteins carried by the powder.

CLEARANCE

The clearance is the height between the foot of a person equipped with a fall arrest system and the nearest obstacle.

CLOGGING

Phenomenon of dust filter saturation. As respiratory protection is provided by a mechanical barrier (interlacing of fibres and electromagnetic reaction), when the filter is saturated, clogging occurs; the user feels difficulty in breathing.

CLOSING

This is the step during which the various parts of the upper, collar, vamp, quarters, gussets are assembled..

COATING

Coating is the operation by which the surface of a textile or leather is coated with a layer of chemical product with the aim of giving it properties of chemical resistance, or to enhance its mechanical resistance. They are mainly found in the form of polyvinyl chloride (PVC), polyurethane (PU), and natural (Latex) or synthetic (Nitrile, Neopren) elastomer. There are many applications, from tarpaulins to imitation leather including proofing of protective clothing.

CONCENTRATION

Quantities of chemical products in the air breathed by a worker at his workstation, and which may adversely affect his health. Hence the need to have concentration limits below which the risks of intoxication are low or non-existent (TLV/OEL).

CONFINED SPACE

A confined space is characterized by a volume/ dimension ratio such as the natural exchange of indoor air with outdoor air being reduced and able to cause asphyxiation, intoxication, fire or explosion. In these areas, the risks are increased by various gas or smoke fumes. Examples: wells, tanks, sewers, ditches, accessible collectors, valve chambers, tanks...

CONNECTOR

Connecting element. A connector can be a carabiner or a hook.

COTTON

Natural textile fibre made of silky filaments surrounding the cotton seed: it is comprised of about 94% cellulose. Comfort, easy cleaning and good absorbency are its main properties.

CUFF

15 cm gauntlet found on welding gloves to protect wrist and forearm against molten metal splash.

D

DECIBELS

Acoustic pressure, in other words the intensity or amplitude of sounds and noises, expressed in decibels (dB), and determines the danger to humans. The safety level has been fixed at 85 dB: above this, pain occurs, and injuries appear.

Decibels are usually measured using a sound meter which converts the sound signal into an electric current.

DEFLECTOR

This is the role played by the helmet because of its rounded shape, it deflects the trajectory of a moving object, without stopping it suddenly, preventing a violent impact.

DERMIS

The skin of the animal, comprised of two layers: the grain (external part of the dermis) and the flesh split (internal part of the dermis). Using the tanning process, the dermis is transformed into leather.

DESIGNER

Person in charge of creating the shoe design integrating all the technical design elements.

DIOPTER

Unit of power of optical systems used to determine the measurement of refraction, i.e. the ability of a medium or an object to deflect light rays. Unit of power equal to the inverse of the focal distance, expressed in metres. The focal distance is the distance between the lens or the refracting medium, and the point at which these rays converge (where they meet). The human visual system is 60 diopters (40 for the cornea and 20 for the crystallin).

DIPPED (GLOVE)

Glove manufacturing process by dipping the form of a ceramic hand in baths of various compositions depending on the material used. The next step is firing in ovens (vulcanisation).

DMF

Dimethylformamide N or N-dimethylformamide is a common solvent used in organic chemistry. DMF may be a carcinogenic substance, although the EPA (Environmental Protection Agency) does not consider it a cancer risk. The new innovative manufacturing process, also called PU Water, is 100% based on water. No solvents, such as DMF, are used, strengthening innocuousness.



GLOSSARY

DOLOMIA

Dolomia is a sedimentary carbonate rock comprised of at least 50% dolomite. It is a double calcium and magnesium carbonate, which crystallizes into lozenge-shaped prisms (rhombohedral). Dolomia is a sedimentary rock comprised mainly of the mineral dolomite (between 90 and 100%) and calcite, which do not have the same density (dolomite: 2.87; calcite: 2.71), playing a fundamental role in rock erosion.

The Dolomia test, conducted using Dolomia dust, is an optional test for filtering face pieces (EN149 :2001 A1:2009) guaranteeing longer lasting performances of resistance to penetration.

DRILEX®

Drilex® is a technical lining found in top of the range sports shoes. This lining is comprised of 2 fibres and enables absorption of perspiration and evacuation of humidity to the outside (antibacterial and anti-odour).

DUAL GRIP

Name of an outsole offering a grip system suited to smooth or friable surfaces, with a large contact tread pattern, and central channels to evacuate liquids.

DUAL-DENSITY (SOLE)

Dual-density means the sole is made of 2 superimposed parts; the underpart in contact with the ground is more rigid whereas the upper part is more flexible and shock absorbent.

DUNGAREE

Dungaree are work garments comprised of trousers and a bib on the chest with shoulder straps. More commonly known as dungarees.

DUSTS

Solid particles suspended in the air.

E

EAR DEFENDER

Element of ear defenders (with the headband and the foam) which provides the sound attenuating effect.

EARPLUGS

Disposable or reusable ear defenders (EN352-2): inserted in the ear canal to plug the conduit. Usually made of polyurethane or PVC, they can also come with a cord, a headband and a detectable metal insert (for use in the food processing industry).

ECO-DESIGNED

Delta Plus develops eco-designed products whose environmental impacts are reduced to a minimum. Thus, throughout the lifespan of the product, the use of energy is minimized, the use of raw materials such as organic cotton and reduced packaging are given priority.

EDGED (SEAM)

Seam consisting of covering another seam with a band of fabric compatible with that of the garment to provide better sealing.

ELASTANE

Extensible fibre made of synthetic elastomer yarns. Elastane is always mixed with other fibres to give the fabric its properties: suppleness, elasticity and crease-proofing.

ELECTRIC ARC

An electric arc is a visible electric current in a nonconductive media (gas, air, vacuum...).

The arc is created when the non-conductive material ionizes, which occurs more easily when conducting surfaces are nearby. The position of an electric arc is stable: once it has found the shortest path, it remains there (minimum energy principle). The whole difficulty for arc welding is therefore to master the arc using a continuous movement so that it keeps the desired form despite the fact that the emitting surface (or more rarely the receiving surface) is sometimes an acute angle.

Electrical arc welding produces a huge quantity of localized heat generating the fusion of materials, making strong joints that remain after cooling.

ELECTRIC FLASHOVER

Electric flashovers are electrical burns without the current passing through the body. In low voltage, following an electric arc, the skin injuries are superficial and mainly affect the hands and face.

Protection is provided by the polycarbonate of a thickness >1.4mm. The best protection is provided by a face shield.

ENERGY ABSORBER

Fall arrester composed of a lanyard with an energy dissipating device, which guarantees to stop a fall from height safely under normal conditions of use.

ENERGY DISSIPATOR

Component of a fall arrester designed to dissipate the kinetic energy accumulated during the fall.

ERGONOMICS

Studies and research into the methodical organisation of work and the arrangement of protective equipment according to the anatomical possibilities of people.

ESD

ELECTROSTATIC DISCHARGE, electrostatic discharge.

Any contact and any physical separation of solid materials may generate electrostatic charge. A person, or a garment worn by the person, may be electrically charged. Where appropriate, the ESD can cause damage, if the charged person or object comes into contact with an ESD sensitive device (microchips, semiconductors, printed circuit boards...).

EN 61340-5-1 (Protection of electronic devices against electrostatic phenomena) defines the general requirements of the areas protected against ESD, EPA (ESD Protected Areas).

To be admitted into an EPA area, depending on the configuration of the workstation, clothing and footwear must be subjected to specific electrical charge dissipation tests determined by European and American standards. Based on the results of these tests, the product will have the special ESD marking. Other PPE (gloves, head protection and fall arrest system) are not mentioned in this standard.

EUROPEAN DIRECTIVE

The directive is a community legal act taken by the Council of the European Union, alone or with the Parliament depending on the case. Member

states are bound by the directive in the objective to be reached, but are free to choose the means and way of reaching this objective within the time limits fixed by it.

F

FABRIC

Any material obtained by interlacing of the warp and weft yarns, and made on a loom or weaving machine. Fabric with a plain weave structure is usually called plain weave.

FALL ARREST HARNESS

Body harness system designed to stop falls, a harness is one element in a fall arrest system. It should be designed to hold the individual during and after the fall with an angle of 50° from the vertical.

FALL ARREST SYSTEM

Protective equipment against falls from height or fall-arrest systems are comprised of 3 elements:

- a body holding system designed to stop falls (fall arrest harness).
- a linking sub-system designed to stop a fall from height (self-retracting fall-arrester, sliding fall-arrester or energy absorbing lanyard).
- a safe anchorage point.

FALL INDICATOR

Mechanical and visual device that allow to identify if a fall arrester suffered a drop impact.

FILTERING MEDIA

Type of respiratory protection device used either in positive pressure (assisted ventilation) or in negative pressure (free ventilation).

FINISH

Finishes are treatments used on some fabrics or yarns, to give them special properties, such as flame proofing, antistatic, water repellent, etc.

FLAME PROOFING

Treatment of textile materials with non flammable substances to reduce the risks of fire or slow flame spread.

FLANNEL

Lightly brushed fabric, soft and fluffy to the touch, originally made of wool.

FLAP

See valve.

FLASH

Surface treatment of a lens giving it a mirrorer aspect. The mirror effect on lens reflects the intensity of the light and heat to reduce eye strain during exposure to bright light, and to limit headaches resulting from this exposure.

This treatment is not compatible with anti-fog treatment. The colour of the treatment can be gold or other.

FLEECE

Thick, soft fabric, brushed on both sides.

FLOCK (GLOVE)

Cotton fibers deposited as a finishing process. Flocking provides a pleasant and soft contact and reduces perspiration.

FLUCTUATING

Noise whose fluctuations are greater than 5dB during the period of measurement.

FOAM

Element of ear defenders (with the headband and the ear cups) which attenuates the noise and provides comfort. It's inside the ear cups.

FOOD (COMPATIBILITY)

The products must not pass on to foodstuffs components of a quantity which may pose a danger to human health, or lead to an unacceptable modification to their composition or a change in their organoleptic qualities. Directive 85/572/CEE provides a list of simulants to be used to check the migration of material components and plastic objects designed to be in contact with foodstuffs:

- Aqueous foodstuffs (pH > 4.5): Simulant A.
- Acid foodstuffs (pH ≤ 4.5): Simulant B.
- Alcoholic foodstuffs: Simulant C.
- Fatty foodstuffs: Simulant D.
- Dry foodstuffs: Simulant E.

FOOD (SOLE)

White or light-coloured sole to prevent marks on the floor; anti-slip sole as it is used on very slippery surfaces.

FREQUENCY

Frequency is expressed in hertz. Only sounds with frequencies of between 20 and 20 000 Hz are audible.

At a frequency of between 20 and 200 Hz, the audible sound is low-pitched. Below that, they are infrasounds.

At a frequency of between 2000 and 20 000 Hz, the audible sound is high-pitched. Above that, they are ultrasounds.

FUMES

Small particles suspended in the air (aerosols).

G

GAUGE

This is the width of the stitch. It corresponds to the number of needles used in 1 English inch (2.54 cm). Example: gauge 7 corresponds to 7 needles in 1 inch. The higher the gauge, the finer the stitch. Gauges are 7, 10, 13, 14.

GLASS FIBRE

Glass fibre is a very fine filament of glass. By extension, composite materials strengthened with this fibre (usually associated with polymers) are also called glass fibre.

Monolithic glass is a very fragile material but when spun to a diameter less than one tenth of a millimetre, it loses its fragility and becomes a highly mechanically resistant material.



GLOSSARY

GRAIN LEATHER

External part of the dermis, with no mechanical modifications. This is the most supple and resistant part of leather.

GUSSET

It is the part of the shoe on either side of the tongue. It protects and seals the closure.

H

HACCP

Hazard Analysis Critical Control Point. This a method of quality control in the food industry, used to:

- identify and analyse the risks associated with various stages in the production process of a foodstuff.
- define the means required to control them.
- ensure that these means are implemented effectively and efficiently.

It is a systematic and rational approach to controlling microbiological, physical and chemical hazards in food.

HARNESS

An element of the harness. The most of arm webbing are starshape with 4 or 6 arms. Webbing with 6 fixing points or more, ensure better distribution of the force exerted on the helmet. Webbing can be made of polyethylene, or textile for better absorption of perspiration.

HARNESS (SAFETY HELMET)

It can be made of textile material or polyethylene. Its role is to absorb the impact of a falling object. It is comprised of two elements: the headband and the webbing.

HEADBAND

Element of ear defenders (with the muffs and the foam), it maintains the pressure of the protection on the ears.

HEADGEAR

It is one of the elements of the harness of safety helmet. It is often made of low density polyethylene (LDPE). It is adjusted by a tightening system with rack (ratchet), or by a sliding system (tightening straps with notches).

HEAT SEALED (SEAM)

Seams covered on one side with a band of fabric compatible with that of the garment and hot-welded for increased protection and sealing.

HML

High Medium Low: 3 levels of frequency measurement.

HYDROPHILIC

A hydrophilic fabric is comprised of water-absorbent materials (e.g. cotton, wool, etc.).

HYDROPHOBIC

A hydrophobic fabric is comprised of materials that do not absorb water. (e.g. polyamide, acrylic, polyester...).

I

IMPACT FORCE

This is the force subjected to the body at the moment of the fall, expressed in daN (decaNewton).

IMPERMEABLE

An impermeable fabric is used to make products which is completely water and air tight.

Water proofing is usually done by the application of a coating. The coating is a deposit of a plastic film (PVC, polyurethane or acrylic) on the surface of a textile. For example, rain suits with their polyurethane or PVC coatings, boots in PVC or dipped glove.

IMPULSE

Noise the sound level of which increases considerably almost instantaneously.

IMPUTRESCIBLE (LEATHER)

After the tanning process, the leather becomes imputrescible, meaning it cannot rot.

INFRARED

Infrared (IR) radiation is electromagnetic radiation of a wavelength longer than that of visible light, but shorter than that of microwaves. Infrared radiation has wavelengths between about 750 nm and 1 mm, spanning five orders of magnitude.

INFRASOUNDS

Sounds of a frequency too low to be heard by humans (< 20 Hz). The average human ear only hears sounds within a certain range of frequencies between about 30 Hz (below that the sounds are called infrasounds) and 15 kHz (above which the sounds are called ultrasounds). Some physiologists even extend the limits of this range from 20 Hz to 20 kHz.

INJECTION (SOLE)

Sole or zip manufacturing system, liquid material is injected into a mould, this material then solidifies and takes the form of the mould.

INJECTION POINT

Point through which the press injects polyethylene into the mould and which is cut on removal from the mould.

INNOCUOUSNESS

The innocuousness of a product guarantees the fact that it contains no materials which may cause allergies to sensitive people. Innocuousness is an integral part of the basic requirements of protective clothing in EN340 or gloves in EN420. Usually, the pH of materials, the chromium VI content of leathers, the nickel emission of metallic materials, azoic dyes and the solidity of the dyes are tested.

INSOLE

This is the sole inside the shoe, in contact with the sole of the foot.

INTERLOCK

Basic knitting weave, each side are the same. Interlock has good dimensional stability which doesn't ladder too much. Widely used to make sports clothing.

INTERMITTENT

Noise whose fluctuations fall to the ambient level several times.

J

JACKET

A jacket is a garment with sleeves, closed in the front, covering the torso to the waist or hips.

JERSEY

Light and supple knits with a different right and reverse side. Widely used to make t-shirts and undergarments. The advantages of jersey are suppleness and comfort.

K

KEVLAR®

Para-aramide fibre manufactured by DuPont de Nemours. It combines lightness and resistance. For equal weight, Kevlar® is five times tougher than steel. Its properties: very resistant to cutting, carbonises between 425°C and 475°C; does not melt; self-extinguishing; dimensional stability; chemical stability; alteration of colour under UV.

KINETIC ENERGY

Energy that a body has as a result of its motion.

KNIT

All fabrics made of stitches or interlaced loops, made using needles or hooks. Knits are extensible. The basic fabrics are: rib, interlock, jersey.

KNITTED CUFF

Flexible, elastic knitted band finishing a collar, sleeves, legs, bottom of some garments.

Used to tighten wrists, collars, etc.

- Integrated cuff (knitted at the same time as the main piece).
- Pieced-cuff (knitted separately and stitched).

L

LAMINATED (FABRIC)

A laminated fabric is a complex of several layers of woven, knit or non-wovens assembled to enhance their performances.

2-layer laminate is used to describe a fabric laminated on 2 layers with a waterproof fibre usually on the outer layer. The inner layer is usually thicker and softer for greater comfort against the skin.

3-layer laminate is a fabric laminated in 3 layers, usually with waterproof-

ing on the outer layer, comfortable fabric on the inner layer and sandwiched between the two, a waterproof- breathable membrane.

LANYARD

Generic term, a lanyard can be made of synthetic fibre rope, metal cable, webbing or a chain. A lanyard may not exceed 2 m in length.

LAST

The last is the basis for any study of the shoe which determines the general look, the volume and fit. It is made of wood for the study and then in plastic for production. The length of the foot, perimeter at the joint, foot width, and instep height are used to determine the size of a shoe and make the basic last.

LIFELINE

This is an anchor line to which a fall arrest system is connected to safeguard the horizontal movements of a person working at height. The anchor line can be a rope, a strap, a cable or a rail.

LINING

This is the part in contact with the foot. Often made of leather or textile, it improves the solidity of the shoe and acts like a second skin for comfort.

LOOSE SOIL

Irregular, uneven surface.

M

MANUAL ADJUSTMENT

Tightening system for safety helmets, using a sliding plastic strap. This system differs from the rack and ratchet system.

MECHANICAL INSPECTION

For PPE of 3rd Category III, it is obligatory to review at least once a year the PPE to ensure its proper functioning. This mechanical inspection is also required after any fall.

MEMBRANE

This is a thin polymer film (PU or polyester) applied to the inner surface of a fabric to enhance waterproofing and breathability.

MESH

An alveolar fibre, used to enable air circulation and evacuate perspiration.

MICROFIBRE

Light, very fine and soft synthetic textile fibre with soft touch, skin or peach aspect.

MIDSOLE

The midsole is also called the comfort sole, whereas the outsole is in contact with the ground; together they make up the two parts of a shoe sole.

MIG/MAG (WELDING)

MIG (Metal-arc Inert Gas) or MAG (Metal-arc Active Gas) welding (the only difference between the two is the gas used to protect the welding bath), both indicated in AWS terminology as GMAW (Gas Metal Arc Welding), is a semi-automatic welding process.



GLOSSARY

The metals are melted by the heat energy released by an electric arc which erupts in a protected atmosphere between a fuse electrode wire and the parts to be assembled.

MIRRORED

See flash.

MOULDED

Moulding is a technique which consists of shaping an object using a mould which is hollow to hug the form of the desired object.

The moulded material must be able to change from the liquid to the solid state or be thick but sufficiently consistent to be able to be removed from the mould without deforming.

A wide range of materials can be moulded:

- metals
- plastics. The manufacturing process for frames is injection moulding.

A part production technique for large or very large production runs, this moulding can be in disk or in form.

N

NANOMETRES

Unit of measurement (1 millionth of a mm) used to calculate the wavelength of light. Maxwell in 1865 succeeded in demonstrating that light is an electromagnetic wave whose field is measured in nanometres, with a visible and invisible spectrum. The wavelength determines the colour of the light. The human eye is only sensitive to wavelengths between 400 and 700 nm.

NATURAL LATEX

This is a natural polyisoprene from the *Hevea brasiliensis*. It is part of the elastomer family, and is therefore elastic, supple and robust. It also has the properties of being impermeable to water, and resistant to detergents and some alcohols.

NBR (NITRILE)

This is a type of Nitrile: Nitrile Butadiene Rubber (NBR).

NEOPRENE
It is a synthetic latex. It is obtained by polymerization of a chlorinated compound: polychloroprene.

The neoprene has the same advantages as latex, namely impermeability, elasticity and resistances against alcohols and detergents. It is also an excellent protection against the chemicals, greases and hydrocarbons and has a good resistance against heat.

NITRILE

It is a synthetic latex. Its vulcanisation gives it properties similar to natural latex and many advantages (resistance to abrasion; excellent performance in oily and greasy environments; good resistance to chemical products).

NON WOVEN

Non-wovens are used to make numerous products: single-use garments, quilt padding, sleeping bags, cleaning cloths, baby's nappies, floor and wall coverings, reinforcements, garment padding, etc...

The three production processes for the lap of non-wovens are:

- dry spinning - the fibres are used directly off the cards to make mattresses of fibres.
- by wet spinning a process similar to paper manufacture is used.
- by melt spinning the synthetic filaments are extruded in a current of hot air then lapped.

NON-INVERTING DEVICE

Element added to a sliding fall arrester to prevent installing it upside down on the anchor line.

NOSE CLIP

A flexible piece located at the top of single-use half-masks (on the nose), to adjust the face piece to the user's morphology.

NOTIFIED BODY NOTIFIED ORGANIZATION

Element added to a sliding fall arrester to prevent installing it upside down on the anchor line.

NPF

Nominal Protective Factor.

Formula used to define the level of protection provided by wearing a respiratory protective mask, and in standard test conditions: $NPF = 100 / TIL (\%)$. The maximum exposure concentration corresponds to: $NPF \times MEV$.

NUBUCK (LEATHER)

Grain leather the surface of which has been buffed, giving it a fine velvety and silky aspect.

NYLON

Registered trade name of DuPont de Nemours. It is a polyamide.

O

OEL

Occupational Exposure Limit;

Concentration measured in mg/m³ or in ppm, for an exposure time equal to the work day (workday of 8 hours), corresponding to the toxic risk.

OIL-WATER REPELLENT

Leather treatment using mineral or synthetic oils or fluorinated resins, to make it resistant to water and/or oil penetration. This treatment gives the leather better mechanical performance for abrasion and increases the comfort (flexibility) of the glove, hence increased dexterity and lifespan.

OPTICAL BASE

This is the radius of curvature of the lens.

The most curved optical base is 9; the least curved is 4; the most common is 6.

OPTICAL CLASS

Parameter which measures the optical quality of the lens. There are 3 classes of optical quality. The 1st corresponds to the best quality and is recommended for permanent wearing of glasses. The 2nd class is used for intermittent wearing and the 3rd only for very brief wearing.

OUTSOLE

The sole, also called the outsole, is the part of the shoe in contact with the

ground. As a result, it must be as tough as possible. With the midsole, it comprises the two parts of the sole of a shoe.

OUTSOLE

The sole is the under part of the shoe. It is in contact with the ground. Several soles can be used to make up protective footwear. The materials used to make them, their sculpture and the manufacturing process will ensure the ergonomic performance required, i.e.: Grip, Anti-slip, Safety & Wearer comfort.

OVERALL

Single-piece garment covering the whole body.

OVERCAST (SEAM)

Seams made using overcast stitch consisting of interlacing three threads around two edges of the fabric to be assembled.

OVERGLASSES

Protective glasses designed to be worn over spectacles.

OXFORD

Thick-yarned plain weave with a lustred finish similar to the Oxford weave of cotton shirts.

P

PANOFLEX®

Flexion zones integrated into the sole to enhance flexibility.

PANOSHOCK®

Delta Plus innovation: piece of expanded rubber which absorbs and reduces shock waves to the spinal column.

PARKA

A parka is by definition shorter than a coat, longer than a jacket or a blouson, and is impermeable.

PATTERN CUTTER

Person who makes the templates or patterns for garments: uppers for shoes, patterns for clothing, before cutting and assembly.

PERMEATION

Although the glove shows no porosity or imperfection, the chemical product may gradually pass through the glove, and come into contact with the skin. The standard EN374 assesses this performance: the time (in minutes) taken by the chemical substance to integrate and pass through the protective material is measured (1 mg/m²).

PHYLON®

PHYLON® is a synthetic materials, supple, ultra light, shock absorbent, used in running shoes by all the major sports brands; It is an EVA insert (Ethylene Vinyl Acetate) moulded, expanded.

PIGMENTED (SPLIT LEATHER)

Split leather coated with a layer of pigment. This is an economical, quality and resistant shoe leather.

PIQUE EFFECT (STITCH)

Knitted fabric with a raised waffle texture.

PLATING

Knitting process consisting of obtained two different fabric sides, each with a different type of yarn. Also used to combine two advantages: comfort and resistance for example.

POLAR FLEECE

Stitch brushed on one or both sides to obtain an aspect as soft as velvet. Polar fleece provides unrivalled comfort thanks to its lightness, its softness, its breathability and its extensibility. As this stitch is not wind breaking, polar fleece complexes with microporous membranes have been developed.

POLO

Polos are originally sports shirts with a turned-down collar, more specifically of Jersey.

POLYAMIDE

Synthetic fibre resistant to traction and abrasion. This is an elastic fibre that recovers its original shape after deformation. It dries rapidly as it absorbs little water. It is insect-resistant (especially against mites).

POLYCARBONATE (PC)

Polycarbonate is a polymer (plastic) which has excellent mechanical properties and thermal resistance enabling it to be used at temperatures of up to 120°C. It has optimal shock resistance, hence its use in many sectors. It filters 99.9% of UV between 0 and 380 nm, UV 400 treatment extends this protection to 400 nm and absorbs part of the blue light in the light spectrum. Its sensitivity to chemical agents and to ultraviolet rays limits its use, however.

POLYESTER

Synthetic fibre with several advantages similar to those of polyamides: resistance to traction and friction; good elasticity; uncreasable; solidity of dyes; easy care; high resistance to abrasion, resistance to acids, bases and solvents, and to heat. It can be mixed with wool and cotton, which makes up for its inability to absorb transpiration, its rough texture and its tendency to pilling.

POLYETHYLENE

Polymer obtained by polymerisation of ethylene molecules. This is a material, with good chemical resistance, high stability, and easily recycled. Polyethylenes (PE) are classified according to their density:

- LDPE (low density) is a supple plastic, used for helmet harnesses for example.
 - HDPE (high density) is a hard plastic, used for the shell of helmets for example.
- HSPE (high strength) provides good mechanical performances in particular against cutting, such as the fibre TAEKI for example.

POLYMER

A polymer is the name of a chain of molecules used to make synthetic filaments before being melted and transformed into yarns. The polymerization operation is a process to manufacture a polymer by connecting small molecules (monomer) into a molecular chain of multiple molecular weight (mass).



GLOSSARY

POLYMERIZATION

Chemical process by which resins or plastics are fixed to textile materials by means of heat to obtain canvas with coating.

POLYPROPYLENE (PP)

Belongs to polyolefin fibres, structurally very similar to polyethylene. Polypropylene can be used as a plastic (helmets) or as a fibre (woven or non woven). This material is easily recyclable, resistant to friction (abrasion) and to traction. It is grease-resistant. Its melting point is higher than 160°.

POLYTEXTURE

Material effect by association of weaving. Example: Ripstop with a box-effect.

POLYURETHANE (PU)

Polyurethane is a polymer transformed into synthetic resin or foam used in coatings, in some membranes and in the manufacture of elastane yarns (Lycra®). Polyurethane is frequently used for coating, making fabrics waterproof. Garments made with such coatings are often breathable and very good alternative solutions to much more expensive products made using waterproof breathable membranes. It has very good mechanical resistance (wear, abrasion, tearing and micro-cuts).

PONGEE

Fabric with a silky, shiny finish.

POPLIN

Tightly woven cotton plain weave used primarily for shirts.

POWDERED (GLOVE)

Finishing process using a powder deposit (usually corn starch). The result is pleasant to the touch and soft which limits transpiration. For disposable gloves, the powdering facilitates donning and removal.

PPE

Personal Protective Equipment.

According to the European directive 89/686/EEC, any equipment designed to be worn or held by a worker to protect him against one or more risks which may threaten his occupational health or safety, and any additional element or accessory designed for the same purpose.

PRE-FILTER

Thin filter for protection against dust (P2 or P3), to be used on full and half-masks, associated with anti-gas filters (A/B/E/K) in order to obtain a combined gas and dust filter.

PU WATER (MANUFACTURING)

Innovative manufacturing process for PU coated gloves, 100% water-based, i.e. no solvents, such as DMF, are used to ensure the bonding of the polyurethane (PU) and the support. As well as limiting the environmental impact of manufacturing, this technology minimizes the quantity of coating that penetrates inside the glove, making the support softer and more comfortable, as it limits transpiration and the accumulation of heat.

PUPILLARY (REFLEX)

The eye's adaptation to light intensity: the pupil dilates or retracts.

PVC

Polyvinyl chloride is a polymer usually known by its abbreviation PVC. PVC resists many solvents, acids and chemical products (in particular hydrocarbons). Fabrics coated with PVC are real barriers against bad weather.

However, they should be worn for a limited time depending on the temperature in the working environment.

Q

QUILTED

Insulating lining made by superimposing materials held together by decorative stitching (fleece + lining).

R

RAGLAN (SLEEVE)

Sleeve assembled on the bias, from the neck to the underarm. There are no shoulder or underarm seams, making for greater ease of movement.

RATCHET

Tightening system of the headband for safety helmet, for easier adjustment, using a ratchet.

REINFORCEMENT

Insert (often made of leather) stitched to the glove in the zones most exposed to the risks of abrasion and cutting (Palm reinforcement, Web reinforcement between the thumb and index finger) or lateral or in front of the shoes.

RESTRAINT (SYSTEM)

System designed to attach a person to an anchorage point so as to prevent any fall from height.

RETRO REFLECTIVE (BAND)

These are bands fixed to high-visibility garments. 3M Scotchlite™ uses 2 types of technologies, microprisms (better contrast, rigidity suited to some garments) and microbeads (resistant to washing, high flexibility), and offer several different types of bands (stitched or sealed). Retro reflective materials are used to reflect light by day and by night.

REVERSE GRAIN

Use of the inner part of the grain enabling considerable suppleness to be maintained, and significantly improving resistance to abrasion. Water-repellent treatment applied to reverse grain is ten times more effective than on the grain itself.

RIB

1x1 / 2x1 / 2x2 type knits (the first and the second figure respectively indicate the number of column in relief and column in hollow seen on the face place) used to make very elastic and reversible knits. Used mainly to make sweaters, cuffs and hose and undergarments.

RIPSTOP

This is a box-effect fabric weave (thicker yarn) that prevents tears from spreading while reducing the weight of the fabric.

ROLLING

Action of crushing leather on its whole surface with a roller to make it firmer and more flexible.

RUBBER

Synthetic elastomer made from oil and with elastic and resistance properties. The advantages of this material are to offer mechanical properties of good grip, good resistance to abrasion, contact heat and to oils and grease.

S

SATIN (WEAVE)

A fabric with a «satin» type weave is characterised by a shiny and smooth aspect. The yarn density gives it the advantage of not igniting as easily as «plain» weave. With special treatments, such as Proban®, flame retardants, it is a flame resistant material widely used for PPE.

SCIVING

Operation to thin the leather to prevent over-thickness during assembly.

SEAT STRAP

Strap used in the design of a harness with the dual role of seat and force distribution in the event of a fall, hence preventing too violent a force between the legs and any resulting consequences. The seat strap is not obligatory on a harness.

SELF-RELEASE (SYSTEM)

Chinstrap mechanism, ensure proper operation. According to standard EN397: the system should be triggered by a force > 150 N and < 250 N.

SELF-RETRACTABLE FALL ARRESTER

Device with automatic blocking system and an automatic lanyard tensioning system.

SHANK

Used to support the instep. Very often made of wood, then steel, it is also now made of composite material. Its role is to maintain the instep, or arch of the foot.

SHELL (SAFETY HELMET)

The shell is one of the components in a safety helmet (external part). Its role is to limit injuries by contact impacts (crushing and penetration). It is made by injection from two types of materials:

- HPDE (high density polyethylene), an efficient material, the most economical and widely used.
- ABS (acrylonitrile butadiene styrene), a more rigid material.

SILICONE (FREE GLOVE)

Silicones are polymers derived from sand. They are present more or less everywhere, in the form of mastics, glues, joints, anti-foam additives for washing powders, cosmetics, medical equipment, electrical cable insulation sheaths, high-performance grease, etc...

A certified silicone-free glove has a considerable advantage in industries requiring the total absence of silicone in their manufacturing or assembly process, for example in the automobile industry to guarantee paint without marks.

SIZE

Half pelt cut from head to tail along the line of the backbone.

Set of measurements of the shoe volume, usually determined by the length and width of the foot, measured around the joint of the toes (toe width). Additional measurement tables, such as the height of the instep, determine the various sizes.

There are three main measurement systems in use in the world:

- french sizes (from 17 to 48).
- english sizes (1 to 13 feet).
- american sizes (equivalent to the English sizes + 0.5).

SLIDING FALL ARRESTER

Fall arrester with an automatic blocking function and a guidance system. The fall arrester moves along an anchor line. It accompanies the user in his movements with no manual intervention needed by him. In the event of a fall, the fall arrester automatically blocks on the anchor line.

SNR

Simplified Noise Reduction: a simple and widely used method to measure the attenuation noise, even if not really precise (measurement of decibels without taking account of frequencies).

SOFTSHELL

Soft shell materials are hybrid materials. Between the polar fleece and the windbreaker, «softshells» combine several advantages: keep in body heat, evacuate humidity and act as a barrier to external aggressions, mainly wind and fine rain. It may be laminated to enhance performances (breathable, water repellant).

SOLVENT (FREE COATING)

A solvent is a liquid that has the property of dissolving and diluting other substances without changing them chemically and without changing itself. The new innovative manufacturing process, also called PU Water, is 100% based on water. No solvent, such as DMF, is used to ensure the bond between the polyurethane (PU) and the support.

SOUND

A sound is an acoustic vibration, a movement of particles in an elastic medium: the air.

Sound is characterised by its intensity (amplitude of variations in air pressure): high or low which is expressed in decibels (dB). Sound is also characterised by its height: high or low-pitched (number of oscillations per second) which is expressed in Hertz (Hz).

SPLICE

The process of weaving one end of a stranded rope or cable into the other in order to create a loop.

SPLIT

Internal part of the dermis, obtained by splitting or any other operation to remove the outer layer. The resistance to abrasion and heat are split advantages (after heat treatment).

STABLE

Noise whose fluctuations do not exceed 1dB during the measurement period.

STEEL

Use for the anti-puncture sole for its resistance to a force of 1100N and use for safety shoe toecap for its resistance to 100 or 200 joules.



GLOSSARY

STEL

Short term exposure limit.

Concentration measured in mg/m³ or in ppm over a maximum time of 15 minutes that it is advisable not to exceed.

STIFFENER

A semi-rigid part inserted between the upper and the lining, located at the back of the shoe to prevent flattening and hold the heel in place.

STRAPS (MAIN)

The main straps are elements which are used in the design of a fall arrest harness. They should support a person's body during and after the fall. Other straps in the design of a harness are called secondary straps.

STROEBEL (STITCH)

This stitch is just the over stitch known to seamstresses; a single thread is chain-stitched to assemble the insole to the upper...

STRUCTURE

In knitting, the method of interlacing stitches is called the structure. The three basic knit structures are jersey, interlock and rib.

STYLIST

Person in charge of creating the sketch for a product (shoe, garment, glasses...) integrating technical elements and design constraints.

SUEDE (LEATHER)

Split suede leather is made from the flesh and buffed to obtain the suede aspect, like Nubuck, but which is from the grain.

SUPPORTED (GLOVE)

The dipped form is covered (or not: non supported) with a jersey or interlock cotton knit glove. A supported glove has better mechanical protections and comfort than an unsupported glove.

SWEATBAND

Sheep or lambskin prepared by vegetable tanning, finished without dye and mainly used in linings.

SWIVELLING CONNECTOR

Element often added to a connector or a fall arrester enabling separate rotation of the two parts.

SYNTHETICS

Fibres of chemical origin: in this family are the polyesters, the polyamides, acrylics, para-aramides, polyethylenes, elasthanes, etc.

T

TAEKI (FIBRE)

Synthetic fibre made of high-strength polyethylene (PEHT). It has exceptional mechanical properties, in particular against abrasion and cutting. 2nd generation TAEKI fibre is much softer than the 1st generation, thus providing greater comfort.

TANNING

Tanning transforms the raw hide into an unfinished tanned hide, making it

rot-proof, receptive to finishing treatments and chemically stable.

There are different types of tanning:

- vegetable tanning (natural plant extract tannins).
- mineral tanning (usually with chromium salts).
- mixed tanning (vegetable tanning retanned with chromium).

TASLON

Rough textured fabric. The very tight crossing of its fibres makes it a robust fabric.

THERMOFUSING

Bonding operation using pressure and heat (high visibility strip on a garment, interlining in a collar...)

THIMBLE

Element added inside an end loop to protect from wear generated by the friction.

THINSULATE™

Registered trade mark of 3M. It is a web of synthetic insulating non-woven combining heat, comfort and finesse. It is water repellent.

THT (HEAT-PROOF LEATHER)

Treatment used to make the leather more resistant to contact heat and reduce shrinkage on contact with a flame. The leather remains supple despite contact with a heat source.

TIL

Total Inward Leakage.

It corresponds to the performance of the filtering face piece, and is expressed in %. The lower the %, the greater the protection performance.

FFP1: 22%

FFP2: 8%

FFP3: 2%

TOECAP (SAFETY)

Steel, aluminium or composite shell to protect against the risk of impact and crushing of the toes. Performance is measured at 100 or 200 joules. These are the two main tests; there is also rust resistance (metal toecap), resistance to heat, to hydrocarbons, and to cold for composite toecaps.

TRIPOD

Temporary and carrying anchorage device to be used for vertical movements in confined space.

T-SHIRT

T-shirts are cotton garments covering the torso, without a collar, most often short-sleeved, the shape of which is reminiscent of a T.

TWILL

A fabric with a «twill» weave is characterised by ribbing (diagonal relief) on the right side of the fabric, the underside is different. «Twill» weave is a weave that resists wear and traction.

TYVEK®

The basic material in Tyvek® is polyethylene. Under the effects of pressure and heat (Flash spinning), a multitude of continuous filaments are obtained which are melt bonded to give a non-woven that is lightweight, flexible and resistant.

U

ULTRASOUNDS

Sounds of a frequency too high to be heard by humans ($> 20\,000\text{Hz}$).

ULTRAVIOLET

Ultraviolet (UV) light is electromagnetic radiation with an intermediate wavelength between that of visible light and that of X-rays. Ultraviolet can be subdivided into near UV (380-200 nm wavelength) and extreme UV (200-10 nm). Sunburns are primarily due to UV-B. UV-A cause of sunburns during very long exposures. High intensity of UV-B (315-280 nm) are dangerous for eyes and can cause "welder's flash" or photokeratitis.

UNITS OF MEASUREMENT (YARNS)

The Tex, Decitex (Dtex), Denier (D) or Metric count (Nm) are units of measurement for yarns used to qualify their size also known as «Thread count».

UPPER

Top part of the shoe located above the sole, comprising the tongue, the collar and the quarters.

V

VALVE

Also called a flap, it provides additional comfort to the mask, by rapidly lowering its temperature at the moment of expiration and rejection of CO_2 . It is on disposable masks (product code V), half masks or full face masks.

VAMP

Front part at the level of the instep and on the sides.

VENTILATION

Holes located at the top of the shell to enable better evacuation of heat and perspiration.

Ventilated helmets therefore do not pass the electric test (440 VAC), except for ventilations located at the bottom of the shell, as the test is conducted by immersing the shell to half-height.

VEST

A vest is a short garment without sleeve, which covers top of the body.

VINYL

Synthetic thermoplastic polymer. It is used for disposable gloves. It is impermeable to water, alcohol and detergents, but it is not elastic.

VISIBLE (LIGHT)

Visible light/visible spectrum or optical spectrum is the part of the electromagnetic spectrum which is visible to the human eye. There is no definite limit to the visible spectrum: the human eye adapting to light usually has maximum sensitivity at light of wavelength about 550 nm, which corresponds to a yellow-green colour.

VISUAL INSPECTION

Visual inspection of PPE of 3rd Category

VULCANISATION

Vulcanisation is a process invented by Goodyear, which consists of heating the rubber at high temperature to obtain its transformation. This process is used for dipped gloves, placed in an oven after dipping in materials.

W

WADDLED (LINING)

Lining associated with a thickness of fleece to enhance the heat performance of the garment.

WARP

It is the vertical yarns of knitted fabric in opposite to horizontal yarns.

WATER REPELLENT (FABRIC)

Finish deposited on the fabric to give it the property of not letting droplets of water penetrate the fibre, but allowing them to slide off. It can be said that the drops of water are repelled. The fabric is not waterproof.

WATER REPELLENT (LEATHER)

Leather treatment using mineral or synthetic oils or fluorinated resins, to make it resistant to water penetration. This treatment gives the leather better mechanical performance for abrasion and increases the comfort (flexibility) of the glove, hence increased dexterity and lifespan.

WATERPROOF (SEAMS)

Seam on which a waterproof plastic film is applied to prevent water penetration by capillarity (passage of water by absorption of yarns and/or stitching holes) into an assembly. Assembly seam covered using thermofusing of a band of material compatible with that of the garment to prevent infiltration of water and waterproof the garment.

WEAVE

Method of interlacing warp and weft yarns in woven materials. Each weave has its own aesthetic and mechanical properties. The main fabric weaves are plain, serge, satin. The three basic knit weaves are jersey, interlock, rib. In knitting, the method of interlacing stitches is called the structure.

WEFT

These are the horizontal yarns in woven fabrics, as opposed to vertical warp yarns.

WELDING

Glasses or hood with various shades of filters suitable for welding work; disposable masks with charcoal filter, welding goggles and helmets with special tinted filter, to protect the eyes and face during welding.

WINCH

Lifting device for lifting things (eg equipment) or people, according to the type of product, in rescue procedure

WORK POSITIONING (SYSTEM)

A system used to maintain a user at the workstation in a given position.



GLOSSARY

WRIST CUFF

Knitted finish of the glove wrist, to hold the glove on the wrist and prevent any penetration of dust and waste inside the glove.

Z

ZIP (REVERSE STITCH)

Zip whose stitch is placed on the reverse so that only the ribbon can be seen. It is used for an aesthetic effect and to prevent friction.

ZIP (WATERTIGHT)

Reverse stitch zip covered with a PU membrane to ensure watertightness. It is used on waterproof and technical products.

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