



MARTINAS[®]

*Your Personal Protective Equipment
manufacturer since 1987*

FRANCE

FIRE BRIGADE | FIRE SAFETY | ARMY | INDUSTRY

CATALOG

PROTECTIVE CLOTHING

INTERVENTION CLOTHING

COMFORT CLOTHING

MESH PRODUCTS

ANTISTATIC/MULTINORMS

SHOES

ACCESSORIES / PPE

SUMMARY

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One day someone said to me, make your life a dream and a dream a reality, so I just took a dream of mine and made it my life. Martinas became my life in 2009, the day I joined the company as a sales assistant. Following the passing of the founder, taking over the management of the company was obvious.

This incredible universe is made up of a base of values that I advocate daily: courage, self-sacrifice, commitment, solidarity. As a female business leader, I fight every day to get ahead of new technologies, adapt our garments to specifications and maintain the quality of our products, which are our trademark.

We manufacture our PPE in our own manufacturing facility in Turkey, which allows us to personalize products, control costs, manufacturing times and above all quality.

Our team is made up of rare gems, each in their respective fields, contributing and playing their parts in building Martinas. We are at the beginning of great adventures, that we hope to live by your side.

Discover our universe, we are waiting for you!

Elena SATS
President

MARTINAS : AN AMBITION

Page 6 Our history, our strength

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performance materials

Page 14 Our fibers

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APEURS

S - POMPIERS

OUR HISTORY, OUR STRENGTH



Monsieur Muguet fondateur de Martinas

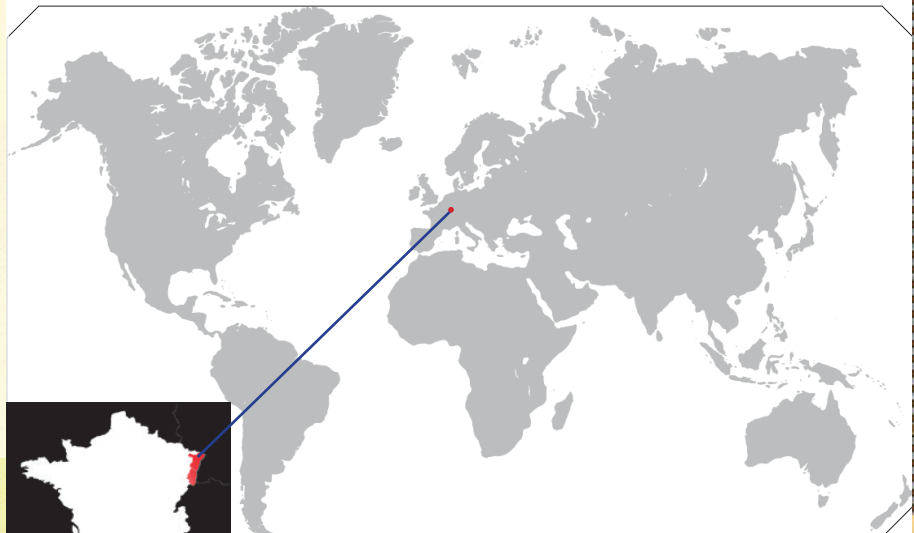
- 1987** - Birth of Martinas
- 1990** - Specialization of the company in the fire sector
- 2009** - Purchase of the manufacture facility in Turkey and International expansion
- 2018** - Founder's passing
- 2019** - Mrs Elena Satz, formerly Managing Director, takes over the company
 - IT renewal
 - Implementation of more specific production monitoring
 - Relocation of the company to Eckbolsheim
 - Participation in the bid for the design of the PPE « textile jacket and pants for the firefighters of France »
- 2020** • Focus on international development
Joined the Stratexion and Safe Cluster Club
- 2021** - Recruitment of the General Manager and a sales person
Participation in the 128th National Fire Brigade Congress
- 2022** - Participation in the Interschütz exhibition

Martinus is an independent Alsatian company, 100% owned by Mrs. Elena Sats. For more than 30 years, we have been supplying both private and public sector companies. With our manufacturing workshop in Turkey, we are able to meet all your requests.

Following the death of the founder, Mrs. Sats consolidated the achievements of the company and opened new perspectives by providing solutions to markets in demand for equipment.

These experiences abroad have allowed us to deepen our knowledge of the market, to experiment and to design new garments. We have surrounded ourselves with European suppliers at the forefront of innovation in terms of personal protection and recognized for the quality of their products.

Today, MARTINAS is recognized on the French and worldwide market for the quality of its products and its customer service.



Behind each of our models hides the professionalism and meticulousness of our production site. Down to the smallest details, our craftsmen strive to offer you unflinching quality.

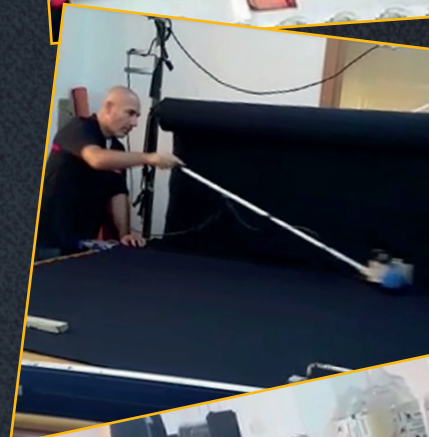
Our products are developed with rigor, meticulousness, and elegance. For this we rely on our know-how and our experience to obtain the best result, with quality control at each stage of the manufacture process.

Beyond compliance with French and European standards for the textile industry, Martinas is constantly improving its manufacturing processes to help protect the environment. Our experiences allow us to complete the various stages necessary for the development of a complete and well-rounded offer.

As a token of quality, we take care of the design and development of the product, its manufacture, and its customization.

Martinas puts the improvement, flexibility, and responsiveness of its services at the forefront, regardless of the quantities, with high but achievable objectives.

Today Martinas is made up of a competent French and Turkish team, over-motivated and passionate about their profession.



FIRE, OUR CORE BUSINESS

Artisan of safety at work, MARTINAS designs and has been manufacturing protective clothing Category III fire, for over 30 years. We offer a full range set of equipment: intervention suits, service, shoes, comfort clothes ... From standard equipment to tailor-made, we master all manufacturing and delivery processes.

Our sectors of activity:

- ✓ Structural fire
- ✓ Aircraft rescue
- ✓ Fire safety prevention
- ✓ Search and Rescue Team
- ✓ Wildland fire
- ✓ Army / defense



FOUNDRY AND WELDING WORKSHOP



CHEMISTRY / PETROCHEMISTRY / LPG INSTALLATION ...



POWER STATIONS



HIGH-VOLTAGE POWER TRANSMISSION LINES



CEMENT INDUSTRY



EXPLOSIVE MATERIAL, FIREWORKS, AMMUNITION

In 2019 we opened a new industrial hub which supplies all industrial sectors with multi-risk and multi-standard clothing:

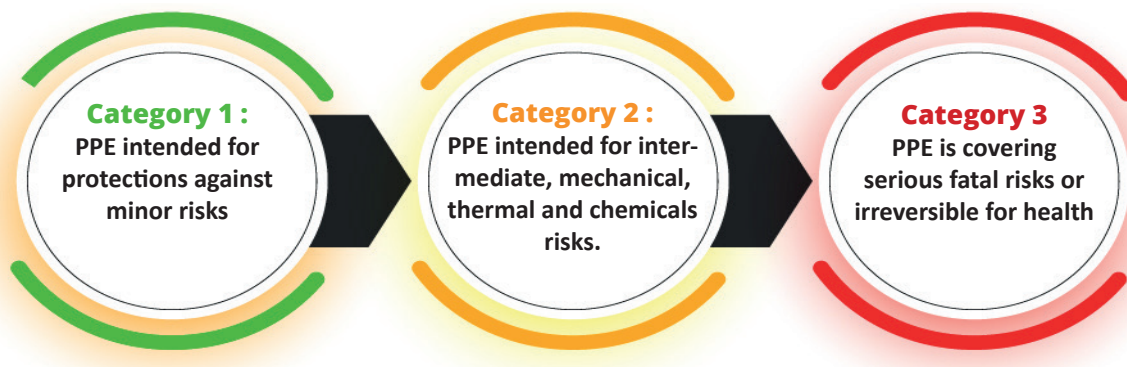
- ✓ Multinorms
- ✓ Antistatic
- ✓ High temperature
- ✓ High visibility
- ✓ Projection of liquid metals
- ✓ Aluminized equipment
- ...

The diversity of ranges that we offer, assures you to find the right solution, whatever your sector of activity is and whatever daily situations you are confronted on the job.

Our team and our expertise at the service of your needs!

YOUR SAFETY, OUR PRINCIPLE

All our equipment complies with European safety standards and follows the 89/686/CEE directive. Every year, we are audited by an official organization as part of the procedure provided for PPE category 3.



Protective clothing for firefighters: EN 469+A1:2020 Xf2, Xr2, Y2, Z2

Clothing worn during wildland firefighting EN 15614:2017



Protective clothing against heat and flames : EN ISO 14116:2015

X = flame spread index

If index 1 = materials not thermostable that cannot be used directly on the skin

Y = durability index after maintenance (according to ISO 6330) H household, I industrial, C dry cleaning

Z = the temperature at which the material was tested for maintenance



Protective clothing used during welding and related techniques connexes : ISO 11612:2016

Performance coding:

A: Limited flame spread

B: Convective heat

C: Radiant heat

D: Molten aluminum splashes

E: Splashes of molten cast iron

F: Contact heat



Protection against welding hazards and related processes: : EN ISO 11611:2015

X indicates the class of PPE:

Class 1: low risks, situations causing the least spatter and low radiant heat

Class 2: greater risks, provocative situations with more projections. The garment must be worn in association with clothing covering the other parts of the body with the same level of protection



Protection against the thermal hazards of an electric arc : EN ISO 61482-2:2020

Class 1: Effective protection performance against an electric arc of 4KA

Class 2: Effective protection performance against an electric arc of 7KA



Protection against electrostatic charges EN 1149-3 :2004 & EN 1149-5 :2018

ATPV value: the maximum thermal energy that can be supported by the garment before the user suffers from second-degree burns.

EBT value: the highest energy exposure value that a fabric can withstand before showing signs of deterioration.



Liquid chemical splash protection EN 13034:2005 + A1:2009

Type 6 (whole body) Ex. Jumpsuit or 2. PB 6 (part of the body) Separate jacket or pants.

4 types of chemicals tested, repellency and penetration

Sodium Hydroxide (Caustic Soda) 10%.

Sulfuric Acid 30%- Butanol-1 (Alcohol)

O-Xylene (Hydrocarbon)



Signaling and high visibility clothing : ISO 20471:2013

Two classification criteria:

1. Fluorescent fabric surface (yellow, orange or red)
2. The surface of retro-reflective tapes or materials



Rain protection clothing : EN 343

Codification in the form of 2 indices

- X - Class of resistance to water penetration from 1 to 3
- Y - Evaporative resistance class from 1 to 3



General protective clothing requirements : NF EN 13688:2013:

Relating to ergonomics, safety, designation of sizes, aging, compatibility and marking of protective clothing, as well as the information to be provided by the manufacturer. This standard is intended to be used only with other standards.

CE marking is mandatory for all products covered by one or more European regulations. Products marked with the CE logo can freely circulate throughout the territory of the EU.

To affix the CE marking to its product, the manufacturer must produce or have produced a technical specification sheet for the PPE. Then, the manufacturer must contact one of the 80 notified European laboratories, which carry out a series of tests and study the file in view of allocating a CE examination certificate if the PPE is compliant.



DRESSING | UNDRRESSING

- Speed of dressing and undressing by the wearer alone,
- Elasticity of materials, safety of protection
- Devices for maintaining and sealing the waist, wrists, ankles, neck
- Devices facilitating the donning of trousers with boots
- Back ventilation and shoulder protection...
- Hygiene during undressing and material compatibility
- Avoid pollution with smoke and soot protection



ADDITIONAL EQUIPMENT

- Global system allowing the wearing of additional equipment
- Compatibility with balaclavas, gloves, helmets, boots...
- System for carrying a rescue strap and holding the SCBA
- Overall comfort and storage system for small items



OPERATIONAL MISSIONS

- Protection against flames, heat
- Sealing against soot and smoke
- Resistance to initiated tearing
- Thermal resistance and level of breathability



VISUAL REPORTING

- Allow visual signaling of the wearer: silhouette device
- Recognize the wearer: proposal of specific colors
- Signal the wearer: high visibility device
- Identify the wearer: identification device by grade....



EXTRACTION - RESCUE

- Device allowing the rescue of the wearer

EU HIGH PERFORMANCE FABRICS

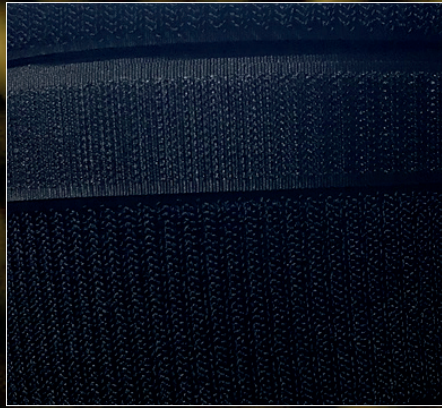
Martinas does R&D to design new garments. This result in a wide range of innovative and reliable products. The garments are subject to the strongest constraints: heat, dust, sand, water, dirt... Every element has been optimized to win in capacity and protection.

Sewing thread



Quality aramid yarns thermostable for technical use for mechanical protection and thermal clothing (jackets approach-fire).

Velcro



The multi-textured buckle 50mm filaments and hooks in polyamide 6/6 are suitable for applications requiring a large longevity and stability of mechanical performance. Soft and pleasant texture for the textured loop skin

Zippers



Zippers for a maximum security. They are impermeable to gases and located on the front of the garment so that the wearer can verify that they are always closed. All the zippers are placed vertically to prevent any chemical buildup.

Rib edge



With a composition of 50% in aramid (Kermel) and 50% viscose, the ribbing prevents fumes and the soot going up the sleeve and soil the clothes worn below. This ensures optimal comfort when using PPE.

Reinforcement:



Reinforcements on the shoulders, elbows, knees, and bottom of pants are breathable and preformed, this allows dimensional stability and adds comfort. Made of Kevlar they are resistant to puncture and abrasion.

Foam

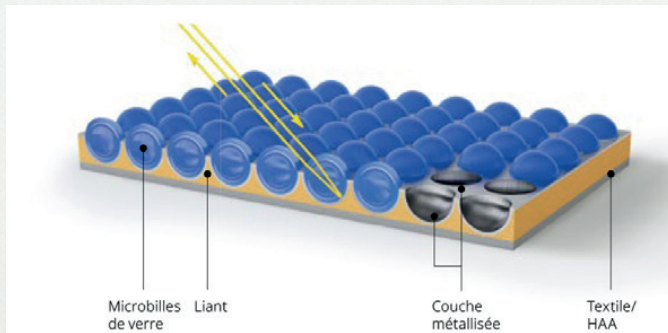


One piece of compressed and pre-formed foam is inserted at the level of the shoulders. Our memory foam fabric provides protection, comfort and tenacity when using an A.R.I (Individual breathing device).

Reflective tapes: 2 technologies

Reflective fabrics reflect light back to its source. Thus, they ensure an excellent visibility under different observation angles and above all, allows the user equipped with it, to be seen regardless of their movements and movements in low light conditions and above all by night. The retro-reflective tapes contain a "pigment" made up of micro-beads of glass or materials having similar optical properties and reflecting light at its source.

MICROBEADS TECHNOLOGY - glass beads



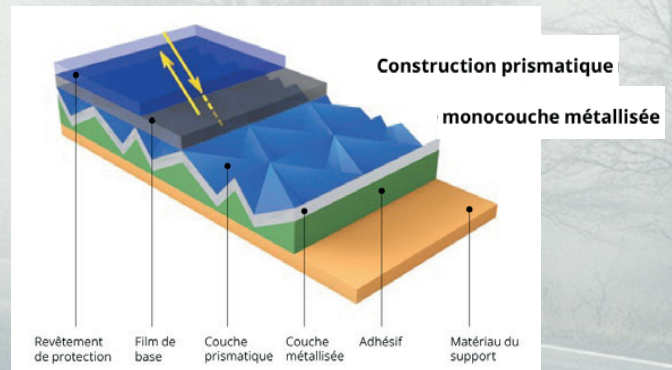
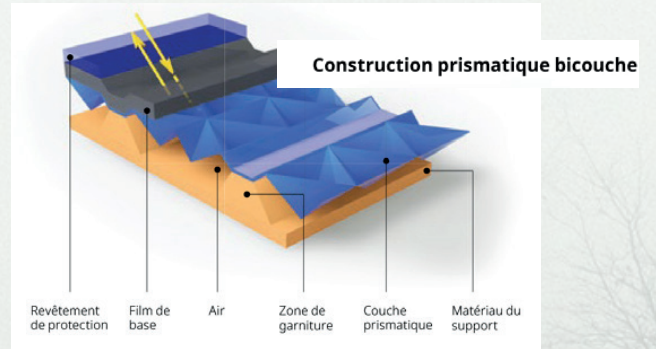
Glass microbeads and their aluminized reflectors react like a mirror. This unique process allows exceptional retroreflection of the light emitted by the headlights of the vehicles.

IT ALLOWS THE WEARER TO BE VISIBLE AT NIGHT AT MORE THAN 160 METERS.

This technology offers:

- Consistent retroreflection regardless of the evolution of the person on the public highway
- Great flexibility in the garment
- Easy maintenance of PPE

MICROPRISMATIC TECHNOLOGY



Reflective fabrics based on prisms use their three faces to reflect light at their source. The regularity and precise arrangement of the micro prisms allow a very high level of retroreflection (Exceptional light reflection from the headlights of vehicles even under the influence of rain.)

This technology offers:

- Constant retroreflection whatever the weather conditions
- Resistance to abrasion, weathering and ultraviolet.
- A range of colors allowing brightness and contrast

OUR TAPES

High visibility reflex, triple trim (TT), grade...

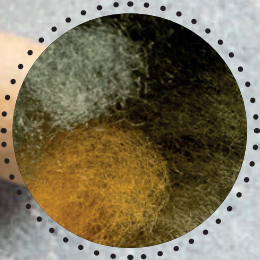
Colors: grey, yellow, orange, green, yellow/grey/yellow, orange/grey/orange...



OUR FIBERS

All the constituents of our products are purchased from reputable companies with quality control departments and procedures that guarantee the characteristics of our products.

They are sophisticated, at the cutting edge of technology and market innovation using high performance fibers such as Zylon®, Kevlar®, Nomex®, Twintex® among others.



SYNTHETIC FIBERS – ARAMIDS

Para-aramid fiber

Kevlar® is the first organic fiber used in composite materials for its resistance and its modulus at traction. Originally, it was developed to replace steel for the manufacture of tires.

Meta-aramid

Inherently flame resistant, Nomex® will not melt nor flow, or fuel combustion in air. Nomex® has the ability to thicken when exposed to intense heat. This reaction increases the barrier protective layer between the heat source and the wearer's skin and minimizes burns.

Kermel® is a high technology fiber, which does not melt nor burn when subjected to very high temperatures. Non-flammable by nature, the Kermel fiber ensures an excellent thermal insulation, very good mechanical resistance as well as a high resistance to products chemicals. Its quasi-circular shape and low modulus give a particularly soft and silky touch.

ARTIFICIAL FIBERS

FR treated viscose. The properties of viscose are similar to those of cotton: not very elastic, creases quickly, but having a strong absorbent power and not felting.

The combination of aramid fiber and viscose creates an ideal balance between protection and comfort. They represent a complex between 2 non-flammable fibers synthesized by different processes and spun together into a synergy of action against thermal radiation. Thus, forging the first layer of protection that the firefighter wears.

PROS

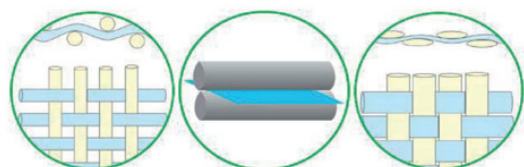
- High tensile strength
- High modulus of elasticity
- Excellent vibration damping factor
- Low density
- Excellent thermal stability
- Good fire resistance
- Good impact and fatigue resistance
- Excellent dielectric properties
- Good chemical resistance, absence of corrosion
- Lightness
- Self-extinguishing, does not melt, weak

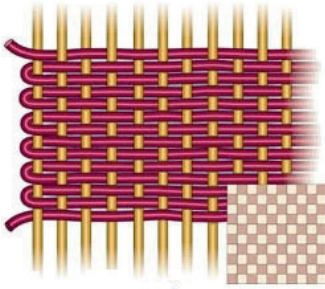
CONS

- Low compressive strength
- Significant moisture absorption
- Low adhesion with impregnation resins
- Sensitivity to ultraviolet rays

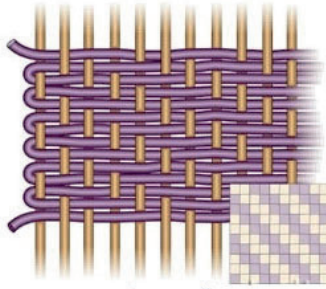
LAMINATION PROCESS

- With microfibers we can obtain a very thin weaving and extremely tight fabrics.
- The lamination of a microfiber textile causes the flattening of the fibers and allows to "block" or reduce many pores.

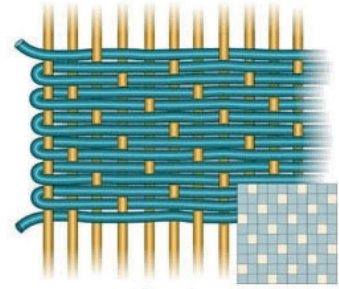




Toile



Sergé



Satin

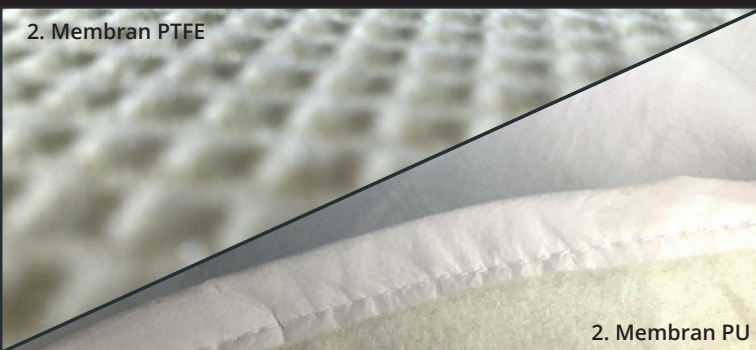
It is possible to strengthen a fabric by weaving it in a particular way. Crossing is done by warp threads (vertical threads) with the weft threads (horizontal threads). The tighter the weave, the more resistant the structure (or armour) would be.

Frequent armors:

The Web	Plain weave	Very resistant to abrasion
The Twill	Weaving with a place and upside producing diagonals	Comfortable good reaction to abrasion
Satin	Very tight weave	Shiny and smooth appearance, hardly letting passing any dust

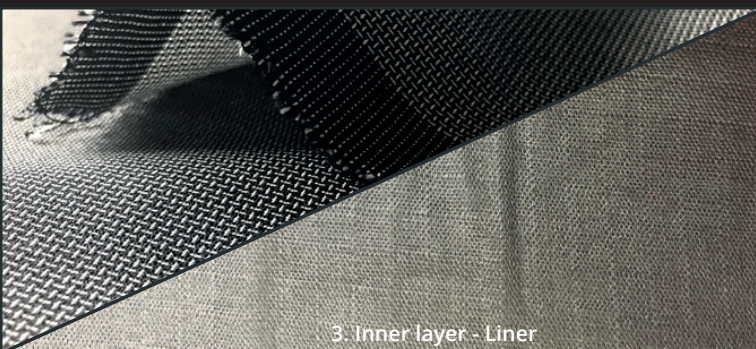


1. Outer fabric - Twintex



2. Membran PTFE

2. Membran PU



3. Inner layer - Liner

COMPLEX

MARTINAS has developed several complexes to meet market expectations. The complex standard is composed of:

1. Outer fabric: Double-sided Twintex

It constitutes the first protection against any aggression. It provides flame resistance and protects the interior layers against snags, tears, abrasion...

2. Fire-retardant membrane: two solutions

- The PTFE membrane
- The PU membrane

Thermal barrier made up of several components. As air is the best insulator, the membrane was designed to maintain maximum space between each layer, but also allow good interlaminar circulation flow of air and liquids such as sweat.

3. Double-sided sock liner

It represents the framework of the thermal barrier which is in contact with the permanent wear or the underwear. Used during dressing, undressing, and maintenance operations, it must present sufficient mechanical strength. It must absorb sweat to transmit it to the inner layers of the jacket by permeability.

PBO: A BOLD CHOICE

Protection, comfort & durability

Less known than aramid or viscose fibers, sand colored PBO offers many advantages. Its combustion is simply impossible in a normal atmosphere. Extreme resistance allows it to preserve all the properties of these fibers at very high temperatures and to limit the risk of burns for users.

On the other hand, PBO is sensitive to UV and humidity. However, after prolonged 6 months exposure to the daylight, the fabrics has excellent tensile strength. Its performance is proven in regular independent testing and operational deployment.

• STORY

The PBO marketed under the Zylon® brand has been first developed in the 1980s. It is the strongest synthetic fiber in the world, but it is also the first organic fiber whose resistance cross-sectional area outperforms both steel and fiberglass carbon. In addition, their decomposition temperature is the highest organic fiber available on the market.

• PROPERTIES

- High thermal insulation
- High mechanical tensile strength
- Highest decomposition temperature of Organic fibers available on the market
- Very good resistance to acids, bases, and solvents
- Excellent hold, resistance to abrasion, cutting
- Tissue integrity after exposure to heat and to U.V.
- Superior mechanical characteristics
- User comfort

• COMPOSITION

Zylon® PBO is an isotropic crystalline polymer with a rod stiff which is spun by a wet jet spinning process dry.



Features

Color	Beige
Flame and heat resistance	500°C
Merger	650°C
Mechanical resistance	Excellent
Cut resistance	Excellent
Holding	Excellent
Abrasion resistance	Excellent

All of our intervention suits are adaptable to PBO. Contact us for more information!

F1 set



VIP3012



VI-M 14A

VIP3012 et SURP12





INTERVENTION GARMENT

Page 20 Fire equipment

ALPHA

ALPHA HP

GAMMA

GAMMA HAUTE VISIBILITE

GAMMA HP

OMEGA

DELTA

SIGMA

YPSILON

FORESTER

VÊTEMENT LUTTE CONTRE L'INCENDIE

Page 32 Exercise garments

TSI

F1

Coverall F1

Parka

Page 36 Comfort clothing

Softshell jacket

Fleece

Polo shirt short/long sleeves

F1 shirt & F1 fleece shirt

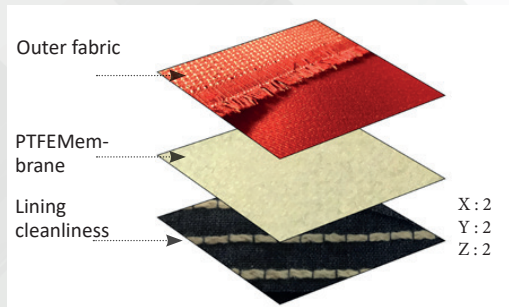
Sweatshirt

Half-season & winter jumper

T-shirt



- **BENEFITS OF Garment**
- Reduction of thermal stress due to a good perception of the external environment under normal working conditions. (low heat flux)
- Great flexibility and ease of threading.
- EN 469 version 2020 compliance in extreme flash over conditions
- Good thermal insulation by air circulation system.



GENERAL CHARACTERISTICS

Category PPE : III

Standards : NF EN ISO 13688+A1 2021 - General requirements

NF EN 469+A1:2020 X2 Y2 Z2 - Fire fighting

NF EN 1149-5 :2018 - Antistatic Properties

Basic colors : navy blue and red

On quote : orange, yellow, black, PBO, two colored

Customs code : 62032310



CUSTOMIZABLE Garment



6 jacket sizes: 80 to 120

4 trouser sizes: 1, 2, 3, 4

4 lengths: C, M, L, XL

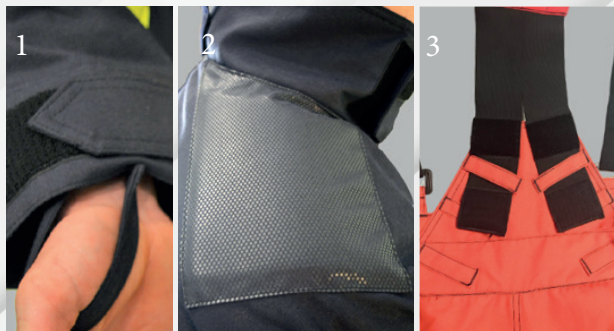
Signature model of MARTINAS. The ALPHA garment is designed and designed with firefighters. It combines high performance, strength, trendy cut and comfort for the wearer.

Validated field solution and plebiscite.

ALPHA overtrouser level 1 available

Ref jacket : ALPHA/V
Ref trouser : ALPHA/P

1. Articulated thumb-straps,
2. Shoulders, elbows, knees, against preformed flexible wear
3. Large removable, adjustable and fleece straps for different sizes



JACKET AND TROUSER COMPOSITION

Outer fabric	Twinsystem® Twill2/1, 81% Kermel®, 18% para-aramid, 1% antistatic fibers - 225 g/m²
PTFE membrane	100% non-woven laminated aramide, two-component PTFE membrane - 140g/m²
Cleanliness lining	34.5% para-aramid, 33.5% viscose FR, 32% meta-aramid, antistatic, plain weave - 200g/m²
Capillary barrier	Modacrylic, cotton with polyurethane coating FR - 350 g/m²
Shoulders, elbows, knees	Kermel® 2/1 98% twill, 2% antistatic fibers, with coated stud points - 275g/m²

α ALPHA HP

GENERAL CHARACTERISTICS

Category PPE : III

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CUSTOMIZABLE Garment



8 jacket sizes : 96 to 128

8 trouser sizes : 1 to 4

4 lengths : C, M, L, XL

Thought and conceived with sappers-Pompidou Hospital firefighters Paris, the garment was designed for the hospital staff responsible for ensuring the safety of helipad.

Ref : ALPHAHP

JACKET AND TROUSER COMPOSITION

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CUSTOMIZABLE Garment

basic reference jacket: GAMMA/V
Basic trouser reference : GAMMA/P



TRIPLE TRIM TAPES
YELLOW/Grey/YELLOW



NIT
Grey TAPES +
GRADE TAPES ON VELCRO



TAPES PRISMATICS
YELLOW

JACKET AND TROUSER COMPOSITION

Outer fabric	Twinsystem® Twill2/1, 81% Kermel®, 18% para-aramid, 1% antistatic fibers - 225 g/m ²
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GAMMA
high visibility

GENERAL CHARACTERISTICS

Category PPE : III
Standards : NF EN ISO 13688+A1 2021 - *General requirements*
 NF EN 469+A1:2020 X2 Y2 Z2 - *Fire fighting*
 NF EN 1149-5 :2018 - *Antistatic Properties*
Basic colors : navy blue and red
On quote : orange, yellow, black, PBO, two colored
Customs code : 62032310

CUSTOMIZABLE Garment



6 jacket sizes: 88 to 128
4 lengths : C, M, L, XL

High visibility and protective jacket and trousers for firefighters to be worn during fire fighting, technical assistance, associated activities.

The wearer shall be seen by drivers of vehicles or other mechanical equipment under all light conditions, day and night, in the light of the headlights of a vehicle according to Class 2 of ISO 20471:2013.

Ref jacket : GAMMA/V/HV

JACKET COMPOSITION

Outer fabric	Twinsystem® Twill2/1, 81% Kermel®, 18% para-aramid, 1% antistatic fibers - 225 g/m ²
PTFE membrane	100% non-woven laminated aramide, two-component PTFE membrane - 140g/m ²
Cleanliness lining	34.5% para-aramid, 33.5% viscose FR, 32% meta-aramid, antistatic, plain weave - 200g/m ²
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GENERAL CHARACTERISTICS

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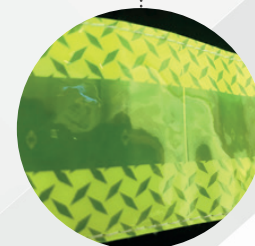
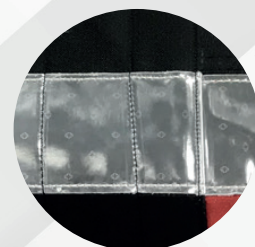
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GAMMA HP
set
intervention
textile level 2

CUSTOMIZABLE Garment



7 jacket sizes : 80 to 128

4 lengths : C, M, L, XL

Thought and designed with firefighters of the Pompidou Hospital in Paris, the jacket was designed for hospital center personnel responsible for providing safety on a heli-skeleton.

Ref jacket : GAMMA/V/HP

JACKET COMPOSITION

Outer fabric	Twinsystem® Twill2/1, 81% Kermel®, 18% para-aramid, 1% antistatic fibers - 225 g/m ²
PTFE membrane	100% non-woven laminated aramide, two-component PTFE membrane - 140g/m ²
Cleanliness lining	34.5% para-aramid, 33.5% viscose FR, 32% meta-aramid, antistatic, plain weave - 200g/m ²
Capillary barrier	Modacrylic, cotton with polyurethane coating FR - 350 g/m ²
Shoulders, elbows, knees	Kermel® 2/1 98% twill, 2% antistatic fibers, with coated stud points - 275g/m ²



OMEGA

set
intervention
textile level 2

GENERAL CHARACTERISTICS

Category PPE : III

Standards : NF EN ISO 13688+A1 2021 - General requirements

NF EN 469+A1:2020 X2 Y2 Z2 - Fire fighting

NF EN 1149-5 :2018 - Antistatic Properties

Basic colors : navy blue and red

On quote : orange, yellow, black, PBO, two colored

Customs code : 62032310

CUSTOMIZABLE Garment



NIT VERSION PRISMATIC TAPES

6 jacket sizes : 80 to 120

4 trouser sizes : 1, 2, 3, 4

4 lengths : C, M, L, XL

- Short jacket on the front designed with an ergonomic cut
- Reinforced protection and removable shoulder straps for a total adaptation to the wearer.
- Waist increase providing recovery when leaning



Ref jacket : OMEGA/V
Ref trouser : OMEGA/P

JACKET AND TROUSER COMPOSITION

Exterior fabric & reinforcements	75% meta-aramid, 23% para-aramid, 2% antistatic - 195g/m ²
PU membrane	Non woven aramid, laminated, PU membrane - 140 g/m ²
Cleanliness lining	Canvas 34.5 % Para-aramid / 33.5 % Viscose FR / 32 % Meta-aramid 200 g/m ²
Capillary barrier	Modacrylic fabric, cotton with polyurethane coating FR - 350 g/m ²

GENERAL CHARACTERISTICS

Category PPE : III

Standards : NF EN ISO 13688+A1 2021 - General requirements

NF EN 469+A1:2020 X2 Y2 Z2 - Fire fighting

NF EN 1149-5 :2018 - Antistatic Properties

Basic colors : navy blue and red

On quote : orange, yellow, black, PBO, two colored

Customs code : 62032310



DELTA
set
intervention
textile level 2

CUSTOMIZABLE Garment

Jacket basic reference : DELTA/V

Trouser basic reference : DELTA/P



TRIPLE TRIM TAPES
YELLOW/Grey/YELLOW



NIT
Grey TAPES +
GRADE TAPES ON VELCRO



TAPES PRISMATICS
YELLOW

DELTA overtrouser level 1 available

JACKET AND TROUSER COMPOSITION

Exterior fabric & reinforcements	75% meta-aramid, 23% para-aramid, 2% antistatic - 195g/m ²
PU membrane	Non woven aramid, laminated, PU membrane - 140 g/m ²
Cleanliness lining	Canvas 34.5% Para-aramid / 33.5% Viscose FR / 32% Meta-aramid 200 g/m ²
Capillary barrier	Modacrylic fabric, cotton with polyurethane coating FR - 350 g/m ²



SIGMA
aircraft rescue
high visibility

GENERAL CHARACTERISTICS

Category PPE : III
Standards : NF EN ISO 13688+A1 2021 - *General requirements*
 NF EN 469+A1:2020 X2 Y2 Z2 - *Fire fighting*
 NF EN 1149-5 :2018 - *Antistatic Properties*
Basic colors : navy blue and red
On quote : orange, yellow, black, PBO, two colored
Customs code : 62032310

CUSTOMIZABLE Garment



7 jacket sizes : 80 to 128
4 trouser sizes : 1, 2, 3, 4
4 lengths : C, M, L, XL

- framework for aircraft rescue and firefighting operations at aerodromes.
- The beads on the back of the jacket maintain a layer of air between the lining and the outer layer when wearing the insulating breathing apparatus
- 80cm zipper closure on each side of trousers covered with a flap
- Reinforcements placed on the friction zones, offering this garment excellent durability.

Ref jacket : SIGMA/V
Ref trouser : SIGMA/P

JACKET AND TROUSER COMPOSITION

Outer fabric	Twinsystem® Twill2/1, 81% Kermel®, 18% para-aramid, 1% antistatic fibers - 225 g/m ²
PTFE membrane	100% non-woven laminated aramide, two-component PTFE membrane - 140g/m ²
Cleanliness lining	34.5% para-aramid, 33.5% viscose FR, 32% meta-aramid, antistatic, plain weave - 200g/m ²
Capillary barrier	Modacrylic, cotton with polyurethane coating FR - 350 g/m ²
Shoulders, elbows, knees	Kermel® 2/1 98% twill, 2% antistatic fibers, with coated stud points - 275g/m ²

GENERAL CHARACTERISTICS

Category PPE : III

Standards : NF EN ISO 13688+A1 2021 - General requirements

NF EN 469+A1:2020 X2 Y2 Z2 - Fire fighting

NF EN 1149-5 :2018 - Antistatic Properties

Basic colors : navy blue and red

On quote : orange, yellow, black, PBO, two colored

Customs code : 62032310

YPSILON

overtrouser
level 1



CUSTOMIZABLE Garment



NIT VERSION



**PRISMATICS
TAPES**

4 trouser sizes : 1, 2, 3, 4

4 lengths : C, M, L, XL

- One-layer overpants for protection during fire and rescue operations.
- Adjustable and removable straps and lower leg opening
- Must be worn over F1 or TSI trousers or combination of service and intervention in 50 aramid / 50% Viscose Fr, 260gr/m².

Ref overtrouser : YPSILON

OVERTROUSER COMPOSITION

Outer fabric : Twinsystem® Twill2/1, 81% Kermel®, 18% para-aramid, 1% antistatic fibers - 225 g/m²

FORESTER

textile intervention garment
WILDLAND FIRE

GENERAL CHARACTERISTICS

Category PPE : III

Standards : NF EN ISO 13688+A1 2021 - General requirements

NF EN 1149-5 :2018 - Antistatic Properties

NF EN 15614 :2018 - Fighting wilderness fires

Basic colors : navy blue and yellow

Customs code : 62032310



7 jacket sizes : XS to 3XL

4 trouser sizes : 1, 2, 3,4

Ref jacket : FORESTER/V
Ref trouser : FORESTER/P

JACKET AND TROUSER COMPOSITION

Twintex outer fabric - 81% Kermel, 18% para-aramid, 1% antistatic - 225g/m² + 100% aramid laminated mesh

GENERAL CHARACTERISTICS

Category PPE : III

Standards : NF EN ISO 13688+A1 2021 - *General requirements*

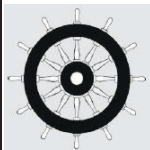
NF EN 469+A1:2020 X2 Y2 Z2 - *Fire fighting*

NF EN 1149-5 :2018 - *Antistatic Properties*

Basic colors : navy blue and red

On quote : orange, yellow, black, PBO, two colored

Customs code : 62032310



Marine Equipment Directive
(MED) Module B

Clothing

fire-fighting equipment

CUSTOMIZABLE Garment



Available in tape-free and pocket-free versions

Ref BTS FFS 3000 MODULE B

JACKET AND TROUSER COMPOSITION

Outer fabric	75% meta-aramid, 23% para-aramid, 2% antistatic - 195g/m ²
Cleanliness lining	padded aramid or aramid felt

GENERAL CHARACTERISTICS

Category PPE : III

Standars: NF EN ISO 13688:2013 - General requirements
NF EN ISO 11612:2016 A1B1C1 - heat and flame protection
NF EN 15614 :20Fighting wilderness fires
Antistatic version: 1149-5:2018 on request

Basic colors: navy blue

On quotation: black, red, orange, grey, bi-colored

Custom code : 62032310

CUSTOMIZABLE Garment

TSI Set

2-piece assembly providing protection against accidental contact with small flames, against radiant and convective heat and recommended for worn during wildland fire suppression.



15 jacket sizes : 80 to 136
17 trousers sizes: du 72 to 136
4 lengths : C, M, L, XL

- Designed for all operational service and response activities
- TSI garment brings comfort and resistance.

Ref jacket : VESTEB1/01

Ref trouser : PANTB1/01

Available version B2



JACKET AND TROUSER COMPOSITION

Outer fabric, knee reinforcements, upper bust bands and on each sleeve,
piping along the trousers on each side: 50% Kermel® / 50% viscose FR, 260 g/m², structure: Twill 2/1

GENERAL CHARACTERISTICS

Category PPE : III

Standards: NF EN ISO 13688:2013 - General requirements
NF EN ISO 11612:2016 A1B1C1 - Heat and flame protection
NF EN 1149-5 :2018 - Antistatic Properties

Basic colors: navy blue

On quotation: black, red, orange, grey, bi-colored

Code douanier : 62032310

F1 Set

2-piece assembly providing body protection against short-term occasional contact with a flame, against radiant and convective heat

CUSTOMIZABLE Garment



15 jacket sizes : du 80 to 136

17 trousers sizes: du 72 to 136

4 lengths : C, M, L, XL

- Straight jacket with sleeves of the "pivot" type
- These tissues do not burn, melt and retain their mechanical properties.

Jacket F1 closure buttons **Ref : VEF1BLBG**

F1 zipper jacket **Ref : VEF1FEBLBG**

F1 trousers with pipping **Ref : PF1 BLBG**

Pants F1 2 pockets with pipping **Ref : PF12POBLG**

F1 trousers without zipper and without pockets **Ref : PF1SLBLBG**

Pants F1 2 pockets without pipping **Ref : PF1SL2POBLG**

JACKET AND TROUSER COMPOSITION

Outer fabric, knee reinforcements, upper bust bands and on each sleeve, piping along the trousers on each side: 50% Kermel® / 50% viscose FR, 260 g/m², structure: Twill 2/1
Microbeads fluorescent tapes of silver grey glasses sewn on the garment

Overall F1

Combining protection, comfort and efficiency, it ensures your physical protection during your operations.

GENERAL CHARACTERISTICS

Category PPE : III

Standards: NF EN ISO 13688:2013 - General requirements
NF EN ISO 11612:2016 A1B1C1 - Heat and flame protection
NF EN 1149-5 :2018 - Antistatic Properties

Basic colors: navy blue

On quotation: black, red, orange, grey, bi-colored

Code douanier : 62032310

CUSTOMIZABLE Garment



9 sizes : 80 to 144

4 lengths : C, M, L, XL

- For all types of operational interventions or service in barracks
- Comfortable material, elegant finishes, ease of garment
- Heat and tear resistant



Ref : COMBIF1

Overall COMPOSITION

Outer fabric, knee reinforcements, piping along the trousers on each side: 50% meta-aramide/ 49% viscose FR / 1% antistatic, 260g/m²

Microbeads fluorescent tapes of silver grey glasses sewn on the garment

GENERAL CHARACTERISTICS

Category PPE : I

Standards : EN 343

Basic colors : navy blue

On quote : Black, red, orange, grey, bi-colored...

Customs code : 62032310

CUSTOMIZABLE Garment

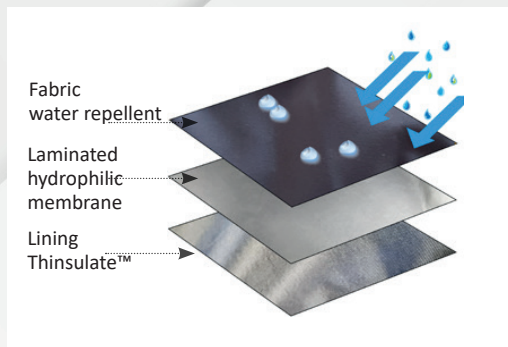
Parka

protective weather proof
Fully lined,
3-layer laminated membrane
with hood integrated in the neck.

7 sizes : 72 to 128

4 lengths : C, M, L, XL

- Parka de forme droite
- Doublure amovible, légère, chaude et confortable.
- Protection contre les intempéries : pluie, vent, froid..



Ref : **PARK343**

Standard parka

Ref : **PK343ORBLBR**

Bi-colored orange/
blue reflex tapes

Ref : **PK343RGBG**

Parka red grey tapes



Parka and trousers
F1

PARKA COMPOSITION

Outer fabric: 100% polyester

Membrane: 3-layer laminated hydrophilic Class 3-3 according to EN 343, all seams are waterproof

Lining: Thinsulate™ covered with 100% polyester fabric

Fluorescent reflective tapes: orange, 50mm

Blouson softshell

3 layers with added tape

DECLINATIONS

Embroidery SAPEURS-POMPIERS

Ref : SOFTSP

embroidery SECURITE INCENDIE

Ref : SOFTSI

FEATURES GENERAL

Colors: navy blue, red

Other colors on quote

Weight: +/- 0.650kg (Jacket) 0.650gr (polar) varies according to size

Customs Code: 62032310

Polar

monolayer (without membrane) with added tape

DECLINATIONS

Embroidery SAPEURS-POMPIERS

Ref : POLAIRES P

embroidery SECURITE INCENDIE

Ref : POLAIRES I

9 sizes : du 80 au 144

Composition : 95% polyester, 5%polyuréthane laminé 3 couches, 325 gr/m²

- Zipper closure
- Self-gripping tape-adjustable wrists
- Red band 2cm with or without embroidery
- Chest wrap on self-gripping 50x50mm
- Lower Jacket Cord
- 1 vertical zipped pocket on the heart side
- 2 outer side pockets
- 1 pocket with flap closure
- 1 pen pocket

Customizable Softshell



11 sizes : du 80 au 160

Composition : 100% polyester 320gr/m²

- High collar, zipper
- Long sleeves and bottom of the elastic fleece
- Sewn-on tape embroidery
- Marine colored canvas reinforcements on shoulders, elbows and inside neck
- Color band 2cm with or without embroidery
- Chest Gathering on self-gripping 50x50mm
- 1 pen pocket on left sleeve
- 2 lined pockets closed by slide

Customizable Softshell



Short sleeve polo

- Straight Shape
- Open collar with undertab closure two buttons
- Short sleeves of the "mounted" type edge-rib finish
- Chest Gathering on self-gripping 50x50mm
- Reinforced canvas pen pocket to prevent puncture
- Color band 2cm with or without embroidery

Customizable Polo

Available
in TYPE C

DECLINAISONS

Embroidery SAPEURS-POMPIERS

Ref : POLSP

Embroidery SÉCURITE INCENDIE

Ref : POLSI

Blue, without red tapes or embroidery

Red, no red tape, no embroidery

FEATURES GENERAL

Colors: navy blue, red

Other colors on quote

7 sizes: 80 to 128

Materials: 100% blue combed cotton
navy blue, stitched mesh

Weight: Polo short sleeves 0.3kg +/-

Polo long sleeves 0.4kg +/-

Customs Code: 61102091

Long sleeve polo

Grammage of materials : 230g/m²

- Open collar with sub-tab two-button closure
- Balloon-type long sleeves with rib end
- Color band 2cm with or without embroidery
- Chest Gathering on self-gripping 50x50mm
- Reinforced canvas pen pocket to prevent puncture
-

✓ Elastic rib edge, easy to thread
Customizable Polo

DECLINAISONS

Embroidery SAPEURS-POMPIERS

Ref : POLMLSP

Special embroidery

Ref : POLMLSI

F1 SHIRT

Standard model

Ref : CHF1BCSP

Red F1 shirt

Ref : CHF1BCSI

F1 shirt fleece

Blue fleece shirt

Ref : CHF1MLT

Red fleece shirt

Ref : CHF1MLTR

FEATURES GENERAL

Colors: navy blue, red

Other colors on quote

7 sizes: 80 to 128

Grammage: shirt: 220gr
sweatshirt: 310gr

Weight: +/- 0.350kg (F1 shirt)
0,550gr (sweatshirt) varies according to size

Customs Code: 61102091

Sweat-shirt

- Comfort equipment allowing the wearer to be protected from the effects of the cold in particular.
- Missions under the administrative and/or support in barracks

DECLINAISONS

Embroidery SAPEURS-POMPIERS

Ref : SWSP

Embroidery SECURITE INCENDIE

Ref : SWSI

Material: 100% navy blue combed cotton, interlock jersey

- Curved shirt
- Rolled up collar with front opening by zipper
- Long sleeves finished with a rib edge
- Cotton, interlock weave stitched to ensure better thermal comfort

Customizable F1 shirt



Material: 70% combed cotton, 30% polyester with navy blue enver, high complexion, stitched mesh

- Round neck neckline
- Double prick: wrist, collar and armhole mounting
- Sleeves terminated by a rib edge
- Color band 2cm with or without embroidery
- Pencil pocket closed by a flap at the top of the left sleeve under the color band.

Customizable sweatshirt



Pull-over

Material: 50% combed wool, 50% acrylic fixed

- Round neck and neck neck
- Shoulder and elbow fabric reinforcements for better comfort
- Color band 2cm with or without embroidery
- Chest Gathering on self-gripping 50x50mm
- Pencil pocket closed by a flap at the top of the left sleeve

Customizable sweater



DECLINAISONS

Jauge 7 - pull demi-saison

Jauge 7 Ref : PULLJ7SP

Jauge 7 Ref : PULLJ7SI

Jauge 12 - pull hiver

Jauge 12 Ref : PULLJ12SP

Jauge 12 Ref : PULLJ12SI

FEATURES GENERAL

Colors: navy blue, red

Other colors on quote

7 sizes: 80 to 144

Grammage: Pullover: 230gr/m²

T-shirt: 165 to 170 gr/m²

Weight: Pullover 230kg +/- depending on size

T-shirt 0.200kg +/- depending on size

Customs Code: 61102091

Material: 100% blue combed cotton navy blue, stitched mesh

- T-shirt with straight shape
- Round neck neckline with clean bias
- Reinforced shoulder seams
- T-shirt with double stitching
- Color band 2cm with or without embroidery
- Chest Gathering on self-gripping 50x50mm

Customizable T-shirt



T-Shirt

DECLINAISONS

Embroidery SAPEURS-POMPIERS

Ref : TSSP

Embroidery SECURITE INCENDIE

Ref : TSSI



CLOTHING PROTECTIVE ARMY

Page 42 Overalls

GENERAL CHARACTERISTICS

Category PPE: III

Basic colors: navy blue

On quotation: black, red, orange, grey, bi-colored

CUSTOMIZABLE Garment



Overalls





CLOTHING PROTECTIVE INDUSTRY

Page 46 PPE

Page 52 Very high
temperature

Page 56 High visibility

GENERAL CHARACTERISTICS

Category PPE: III

Basic colors: navy blue

Sizes: S to 3XL

CUSTOMIZABLE Garment

Parka

ATEX Zone multi-risk
bad weather

PROPRIÉTÉS DU VÊTEMENT



Heat and flame protection
EN ISO 14116



Protections against liquid chemicals
EN 13034 A1TYPEPB6



Antistatic Properties
EN 1149-5



Weathered clothing
EN 343

Protections against liquid chemicals
EN 14058 avec gilet 1 3 X WP

- Closed stand-up collar
- Roll-up hood in collar with drawcord with stopper ball
- Injected plastic double slider zipper covered by adjoining tab closed by 5 plastic press studs
- Drawstring with stopper balls at the bottom of the parka
- 2 chest pockets with closed flap
- 2 lower patch pockets with closed flap
- 5 cm gray flame retardant retro-reflective bands placed around the torso and arms
- Flame retardant fabric lining
- Straight cuffs with ribbed cuffs inside
- 2 detector loops on the chest
- Wider flaps
- Closing of the collar and pocket flaps with hidden plastic snaps
- Translucent sealing strips on the seams
- Fixing system provided inside for the addition of a compatible vest.



PARKA COMPOSITION

Outer fabric: 98% Polyester Coated Polyurethane, 2% Carbon - 250 gr/m²

GENERAL CHARACTERISTICS

Category PPE: III

Basic colors: navy blue, black, grey, red, orange

Sizes: XS, S, M, L, XL, 2XL, 3XL

CUSTOMIZABLE Garment

Set
arc-proof
& chemicals liquid

PROPRIÉTÉS DU VÊTEMENT



Protection against heat and flames
EN ISO 11612 A1, A2, B1, C1, E2 F1



Protection against electric arcs
IEC 61482-2 Class 14kA



Antistatic Properties
EN 1149-3 & EN 1149-5



Protections against liquid chemicals
EN 13034

General requirements EN ISO
13688:2013

- Logo: pictograms are located on the left arm
- Zipper under flap
- Cuff adjustment with velcro
- Motion pleats at the back
- Elastic bands on the waist
- Two zippered chest pockets
- Two side pockets on the sides
- One hip pocket with flap
- Two side pockets
- Yellow/grey/yellow retro-reflective bands on the chest, back, arms and legs



Ref : BTS GMN 2000 PLUS

JACKET COMPOSITION AND PANTS

Outer fabric: Modacrylic, cotton, antistatic fabric

GENERAL CHARACTERISTICS

Category PPE: III

Basic colors: orange

Sizes: 1 to 8

CUSTOMIZABLE Garment

Overall

ATEX Zone for oil trades

CLOTHING PROPERTIES



Heat and flame protection

EN ISO11612 A1 B1 C1 E1 F1



Protections against liquid chemicals

EN 13034 A1TYPEPB6



Antistatic Properties

EN 1149-5

Protection welding operation

EN ISO 11611 A1 CLASSE 1

IEC 61482-2 CLASSE 1

- Closed up collar
- Plastic slider injection-molded zipper covered by closed adjoining tab
- Elastic back belt
- 2 chest pockets with closed flap
- 2 low pockets caught in side seams with closed flap
- 5 cm grey flame retardant retroreflective tapes on the upper arm, calf and shoulder harness
- Knee pockets (bottom openings for toggle insertion)
- Inset cuffs closed by hidden plastic push button
- 2 sensors on the chest
- Wider flaps
- Closure of neck, leg and pocket flaps with hidden plastic snap buttons
- Crotch 80 cm.



Ref : COMBIPETORBG

COMPOSITION OF THE COMBINATION

Outer fabric: 75% cotton, 24% polyester, 1% carbon - 280 gr/m²



VERY HIGH TEMPERATURE

These garments must provide maximum protection against the surrounding flames and the intense radiant heat, whether during operations fire fighting or high-risk rescue. Clothing should protect the entire body, including the head, hands and feet.

Aluminized kevlar bib Apron

GENERAL CHARACTERISTICS

Category PPE: III

Dimensions : 90x70 - 110x80 - 140x80

Sizes : unique, S, 2XL

CLOTHING PROPERTIES



Heat and flame protection

EN ISO11612 A1 B1 C3 D3 E3

- Flap apron with neck straps
- Buckle adjustable belt
- Available in version straps crossed in the back
- Possibility of ventral reinforcement and cross straps.
- Hem all around, all seams in KEVLAR thread



- Recommendation: this equipment must be supplemented by suitable PPE and worn on flame-retardant clothing.
- CAREFUL! The arms, neck and back are not protected , work against risk
- Only use within the limits of the risks covered above

COMPOSITION & NATURE OF MATERIALS

Aluminized kevlar

GENERAL CHARACTERISTICS

Category PPE: III

Sizes : S, M, L, XL, 2XL, 3XL

Set
aluminized



CLOTHING PROPERTIES



Heat and flame protection
EN ISO11612 A1 B1 C3 D3 E3 F0

- Protection against thermal hazards (flame, radiant heat and molten metal spraying)
- **be careful it takes some time to remove the pants, in case of large projections, preferably use a coat faster to remove**
- JACKET: side closure by self-gripping and/or push buttons - ventilation under arms - leather collar bovine flower
- TROUSERS: zipper with snap buttons - belt loops - exists with or without straps - the jacket and trousers must be **IMPERATIVELY DOORS TOGETHER** to provide complete protection of the body/arm and legs of the wearer

COMPOSITION & NATURE OF MATERIALS

Aluminized para-aramid fiber 500g/m²-Kevlar seams

Set

high visibility severe weather

GENERAL CHARACTERISTICS

Category PPE: III

Composition: aluminized kevlar

Jacket sizes : S to 5XL

Pant sizes : S to 4XL



CLOTHING PROPERTIES



High visibility signaling garment

EN 20471+A1 CLASSE 3 for the jacket, classe 1 ou 3 for the trouser



Rain and weather protection

EN 343

DESCRIPTION JACKET

- High visibility jacket EN ISO 20471 class 3
- Up collar
- Fixed hood with tightening lace, wound in the neck under flap closed by 3 metal snap buttons
- Spiral zipper covered by adjoining tab closed by 4 metal snap buttons
- 2 low flap pockets
- Ventilated back
- Raglan sleeves
- Windproof cuffs with elastic
- High frequency welded seams
- 5 cm grey retroreflective tapes with double torso and arm turns



TROUSER DESCRIPTION

- High visibility trousers EN ISO 20471 class 1 or 3
- Fly
- Elastic waist
- 2 underflap passemaines
- 5 cm grey retroreflective tapes with double calves
- High frequency welded seams
- Crotch 80 cm

COMPOSITION & NATURE OF MATERIALS

Polyurethane and PVC coated polyester: 16% PES 72% PVC 12% PU-300g/m²

GENERAL CHARACTERISTICS

Category PPE: III

Sizes: S/M L/XL 2xl/3xl

Color: neon yellow or neon orange

Gilet

multipockets
high visibility

CLOTHING PROPERTIES



High visibility signaling garment
EN 20471+A1 classe 2 dissociable



jaune Fluo 51



Orange Fluo 57

- Injection slide zipper
- 1 right-side chest pocket with self-gripping flap for a phone
- 2 low bellows pockets with self-gripping flap
- Grey retroreflective tapes of 5 cm resistant to 25 washings at 60° C. placed in double bust turn and in the shape of straps.

COMPOSITION & NATURE OF MATERIALS

Meshair aerated mesh, 100% polyester - 150g/m²





OTHER EQUIPMENTS

Page 72 Bonnets,
caps, keys

Page 73 Hoods

Page 74 Intervention gloves

Page 75 Belts

Page 78 Helmets

Page 80 Rangers,
intervention boots

Bonnet

Composition: 50/50 acrylic / wool

Size: unique

Basic colors: navy blue, red.

Other colors: on quotation

Ref : BONNET



Universal Spanner

Description: of aluminum bronze, anti-spark, for connections from 20 to 120.



Ref : CLE/TM

Key "Deschamps" 11 functions

Composition: aluminium bronze

Description: 11 functions are performed: clamping of fittings, opening of EDF and GDF boxes, opening of fire pole boxes, windows and doors without handles, opening of ventilation ducts and fire cabinets, aluminum locks of modern bathroom doors, sockets of dry columns, loosening of nuts, opening of bottles with caps



Ref : CLEDESCHAMPS

Lamp T5 ADF XP



Dimensions : 16,5 x 4,5 x 4,5 cm

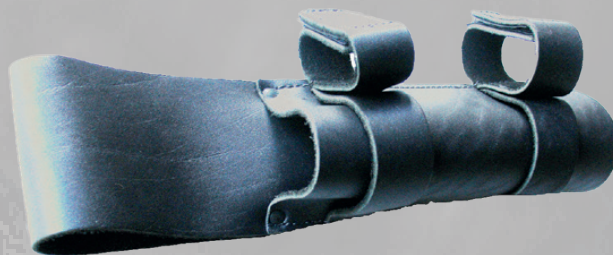
Weight : 0,090 kg

Customs code :

85131000

Ref : LAMPE F1 T5

Leather stand for lamp, key, gloves



Leather case for a belt allowing to wear 1 lamp, 1 pair of gloves type SP and key tricoise or polycoise.

Ref : LAMPE F1 T5

Fire Belt

for firefighters

Material PES strap and backrest

Lifetime: 10 years

Standards: EN 358:2018 EC 0082

Color: black
Delaying flame

3 snag points

Sizes: S M L XL



Braided belt

F1

Marine color

Strap width: 33 mm

Sizes: 110 cm, 120 cm, 130 cm, 140 cm, 150 cm

Customs Code: 58063100

Ref : CEINT



Cap

Composition: 50% aramid, 50% viscose

Color: red or blue

Size: single, scratch at the back for adjustment

Weight: 0.070 kg

Packaging: individual

Customs Code: 61143000

Product customization

Ref : CASQUETTEBLSP
CASQUETTERSO



Leather gloves

Designed for forest fires , rescue & clearing, hose handling, removal



Standards: This product complies with requirements of Regulation (EU) 2016/425

Composition: Heat-resistant and water-repellent treated leather, Kevlar lining

Color: straw **Size:** from 7 to 12 length: 38cm including a 18cm rind cuff

Description:

Full-grain leather treated against heat and penetration of liquids
Para-aramid lining and artery cover: cut-off protection for secure interventions

Clamping elastic: fitted, stay perfectly in place

Customs Code: 4203 29 10 00

Ref : GANTSCUIR

Leather-textile fire protection gloves



Standards: EN 659:2003+A1 2008

Composition: Palm: Scotchgard® washable treated goat leather

Back: AIRSYSTEM® fabric

Lining: UNDERTECH® + aramid felt in palm

Headline: Heat-resistant velvet leather

Total length 40 cm

Fastening system: Right glove: Carabiner Left Glove: ½ ring

Color: black, red, PBO **Size:** 5 to 13

Description: For structural lights, fire attack intervention, drive boxes

Customs Code: 42032910



Gants désincarcération

Standards: EN 388

Composition: Palm: Polyurethane coating; velvet leather reinforcements + foamback foam

Back: Shock absorbing gum reinforcements

Glove: Zirnium® Mesh

Total length 25cm

Color: Black **Size:** 6 to 11

Description: For road rescue, deincarceration, rescue/clearing

Customs Code: 42032910



EN388		Niveau de protection coupure en dos >22N : E					
CE		4X44FP					
ISO 13997		A	B	C	D	E	F
Charge de coupe en Newton		≥ 2	≥ 5	≥ 10	≥ 15	≥ 22	≥ 30

Textile fire protection gloves

Standards: EN 659:2003+A1 2008

Composition: Palm: silicone coat back fabric AIRSYSTEM®
UNDERTECH®+ palm aramid felt lining

Rib edge: meta aramide

Color: black, red **Size:** 7 to 11

Description: For structural lights, drive boxes

Customs Code: 42032910



Fire hood

Category of PPE: 3

Standards: EN 328:2008 EN 340
| 13911: 2004 | EN1149/5: 2008

Composition: 100% aramid

Color: navy blue, red, ecru

Size: unique

Without flap **Ref : CAGOULE/SR**

With flap **Ref : CAGOULE/AR**

Fire hood

Category of PPE: 3

Standards: EN ISO 13911: 2017
EN 1149 /5: 2008
Regulation EU 2016/425

Composition: 70% aramid | 28%
viscose | 2% antistatic fibers

Size: unique

Ref : Cagoule/AR/RG

*Developed for firefighters who
intervene in forest fires,
this hood has a elastic protection
at the level of the mouth and nose
which is retractable.*

*The yoke on the top of the head
allows a better heat removal.*

- Double-sided knit
- Elastic tunnel (improves positioning at equipment and head)
- Large foldable face opening
- Plastron that covers the shoulders and part upper chest and back for more protection
- Flat seams for greater ease
- Heat-adhesive label resistant to washing up to 95°C



HPS7000

helmets

Material: glass fiber reinforced plastic (PA-GF) composite with high temperature resistant aramid fiber

Size: Two sizes of caps

- H1 for headers from 52 to 62 and 50/51 optional (with additional pad)
- H2 for head turns from 56 to 64/66, continuously adjustable with a wheel

Weight: HPS® 7000 Basic-H1: approx. 1 380 g (± 5 %); HPS® 7000 PRO-H1: approx. 1 580 g (± 5 %)

Colors: black, bright orange, bright yellow, chrome, photo-luminescent, yellow photo-luminescent, red, blue security, aluminum white, white, green yellow, yellow zinc

Standards:

NF EN 443:2008 Standard
DIN 58610:2014

- DIN EN 16471:2014
- DIN EN 16473:2014
- MED Standard 2014/90/EU
- SOLAS II-2/ 10.10; IMO Res. MSC.327(90)
- EU Regulation 2016/425 on personal protective equipment

Ref : HPS 7000 ou
HPS 7000PRO

- A fire helmet suitable for all heads
- A design that can be tested
- Innovative system design

✓ Maximum safety thanks to a combination of materials

✓ Nothing is left to chance

✓ Ready to serve again in one go



With its innovative, sporty and dynamic design, its ergonomics and its components that make it a versatile system, the HPS® 7000 firefighter's helmet is incomparable. It offers maximum protection for every procedure.



HPS SafeGuard

Lighter, versatile firefighter helmet for all challenges

Dimensions: single size for head turns from 50 to 64/66, continuous adjustment using the external adjustment wheel

Weight: about 1kg250

Helmet cap: Plastic composite material glass fiber reinforced (PA-GF), high strength temperatures, with circumferential end rail

Shock Absorbing System Rigid foam shock absorbing element made of reinforced two-component polyurethane (PUR) of aramid fabric, in combination with the textile net and padding comfort (optional)



New

Standard

- NF EN 443:2008 for firefighters' helmets (Helmets for fighting fires in buildings and other structures); (type: A 3b, C, E2, E3, -30°C)
- NF EN 16471: 2014 for firefighter helmets in natural areas
- NF EN 16473: 2014 for firefighter helmets, technical rescue operations
- MED 2014/90/EU standard (pending) for fire helmets on board ships
- SOLAS II-2/10.10., IMO Resolution MSC.327(90) International Maritime Organization Resolution for Fire Helmets on Board Ships Regulation (EU) 2016/425 on PPE



Gallet F1XF

firefighting helmets

Size: 2 M 52-62 or L 57-65cm

Weight: 1450g even size M and 1580g size L

Colors: white, yellow, red, black, fluorescent yellow, fluorescent orange, grey, blue, green, photoluminescent, metallized

Composition: High temperature thermoplastic material, injection molded, shock absorbing polyurethane foam, with reinforced aramid overmolded.

Ref : GaletF1XF





Half-Boots

life-saving

Certification: EN 15090:2012 F2A HI3 CI AN SRC
DPI III CAT
Height: 22 cm (SIZE 42)
Stem: Waterproof leather, 1.8- 2.0 mm thickness
Lining: breathable tissue
Sole: Nitrile rubber, antistatic, anti-oil, heat resistant to 300°C
Color: black
Weight: 1900g (size 42)



Half-Boots

multi-Activity

Certification: EN 15090:2012 F2A HI3 CI AN SRC
Height: 23.5 cm (SIZE 42)
Stem: Waterproof leather, 1.7 - 1.9 mm thick
Lining: CROSSTECH®
Sole: Nitrile rubber, antistatic, anti-oil, heat resistant to 300°C
Color: black
Climate: four seasons

Fire Boots

multi-use

- **Composition:** full grain bovine leather - thickness 3mm ±0.2mm
- **Color:** black
- **Weight:** T. 42 = 2,300 KG

Ref : BMU103

- The leather is waterproofed.
- Padded tongue and shaft collar
- Leather filling ensuring greater longevity without deformation of the sole
- HRO sole, anti-oil, anti-wear, anti-static, anti-heat and heel with shock absorber



Multi-purpose fire boots

connection, type 2

Standards: UNI EN ISO 15090 F2A
CI HI3 SRC

Composition: 1st quality water-
proof bovine leather

Color: black

Weight: +/- 3,000kg in T. 42

Size: 36-48

Customs Code: 64039193

Multi-purpose boots meeting the requirements
Directive 89/686/EEC of 21 December 1989 on
personal protective equipment (PPE)
They are category 2 according to the classification
of the EC Commission of 08 January 1996.

Ref : BMU 1608



Multi-purpose fire boots

- Waterproof full-grain cowhide;
- Waterproof and breathable
AQUASTOP lining;
- SPIDER sole non-slip, anti-heat,
anti-oil, anti-wear.

Composition: waterproof full-grain leather, with-
out vegetable oil

Standards: EN 15090:2012 F2A HI3 CI WR AN
SRC

Sizes: 36-49

Color: Black / Yellow - Black / Orange - All Black

Weight: T. 42 = 2,300 KG

Ref : BMU 91609







SIZE CHART

SIZE CHART

- Take your measurements carefully, directly on the body and without tightening
- If you hesitate between two sizes, always choose the larger size

INTERVENTION JACKET MODEL GAMMA, DELTA, SIGMA

Size	80				88				96				104				112				120				128							
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL				
Chest size	76-84				84-92				92-100				100-108				108-116				116-124				124-132							
Hauteur sous toise	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206

INTERVENTION JACKET MODEL ALPHA, ALPHA HP et OMEGA

Size	80				88				96				104				112				120			
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL
Chest size	84-92				92-100				100-108				108-116				116-124				124-132			
Height	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206

INTERVENTION (OVER)TROUSER MODEL ALPHA, GAMMA, OMEGA, DELTA, SIGMA, YPSILON

Size	1				2				3				4			
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL
Waistline	76-92				92-108				108-120				>120			
Height	152	164	176	>188	152	164	176	>188	152	164	176	>188	152	164	176	>188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188		164	176	188		164	176	188		164	176	188	

HIGH VISIBILITY INTERVENTION JACKET MODEL GAMMA HV

Size	88				96				104				112				120				128			
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL
Chest size	84-92				92-100				100-108				108-116				116-124				124-132			
Hauteur sous toise	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206

B1 & F1 JACKET

Size	80				84				88				92				96				100				104							
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL				
Chest size	72-80				80-84				84-88				88-92				92-96				96-100				100-104							
Height	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206

Size	108				112				116				120				124				128				132							
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL				
Chest size	104-108				108-112				112-116				116-120				120-124				124-128				128-132							
Height	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206

Size	136			
	C	M	L	XL
Chest size	132-136			
Height	152	164	176	188
	-	-	-	-
	164	176	188	206

B1 & F1 TROUSER

Size	72				76				80				84				88				92			
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL
Waistline	68-72				72-76				76-80				80-84				84-88				88-92			
Height	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206

Size	96				100				104				108				112				116			
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL
Waistline	92-96				96-100				100-104				104-108				108-112				112-116			
Height	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206

Size	120				124				128				132				136			
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL
Waistline	116-120				120-124				124-128				128-132				132-136			
Height	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206

* The sizes from 128 onwards are increased by 25%.

SIZE CHART

Overall **F1** Ref : COMBI

Size	80				88				96				104				112				120				128							
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL				
Chest size	72-80				80-88				88-96				96-104				104-112				112-120				120-128							
Height	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206	164	176	188	206

Size	136				144			
	C	M	L	XL	C	M	L	XL
Chest size	128-136				136-144			
Height	152	164	176	188	152	164	176	188
	-	-	-	-	-	-	-	-
	164	176	188	206	164	176	188	206

* The sizes from 128 onwards are increased by 25%.

PARKA Ref : PARK343

Size	80				88				96				104				112				120				128				
	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	C	M	L	XL	L				
Chest size	76-84				84-92				92-100				100-108				108-116				116-124				124-132				
Height	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	158	170	182	194	182
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	170	182	194	206	194

F1 SHIRT, POLO SHIRT, POLAR FLEECE, SWEATSHIRT, T-SHIRT

Size	80/XS	88/S	96/M	104/L
1/2 Chest size	46	48	52	56

Size	112/XL	120/XXL	128/XXXL	136/XXXXL
1/2 Chest size	60	64 (2xl)	68(3XL)	72(4XL)

Size	144/XXXXXXL	152/XXXXXXXL
1/2 Chest size	76(5XL)	80(6XL)

Size	160/XXXXXXXL
1/2 Chest size	84 (7XL)

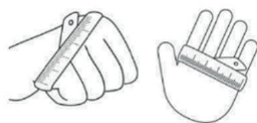
BLOUSONS Ref : BLOUSOFT

Size	88	96	104	112
1/2 Chest size	46	48	52	56

Size	120	128	136
1/2 chest size+	60	64	68

GLOVES

Hand circumference (cm)	Glove size	Hand circumference (cm)	Glove size
14,2 - 16,7	6	24,2 - 26,7	10
16,7 - 19,2	7	26,7 - 29,2	11
19,2 - 21,7	8	29,2 - 31,7	12
21,7 - 24,2	9		



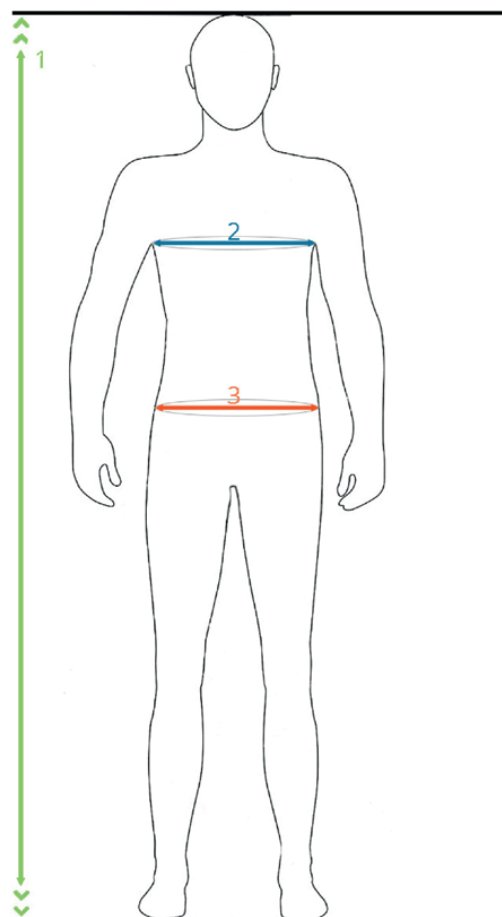
AFTER SALES SERVICE

Our company takes care of the after-sales service of the products after quotation

TAKE MEASURES

- 1** **Hauteur sous toise**
Sans chaussures
MEASURE cm
- 2** **Tour de poitrine**
Sans serrer
MEASURE cm
- 3** **Tour de ceinture**
Sans serrer
MEASURE cm

- Prenez soigneusement vos mesures, directement sur le corps et sans serrer
- Si vous hésitez entre deux tailles, choisissez toujours la taille supérieure



GLOSSARY

Aramid: yarns and fibers obtained from polymers aromatic polyamides, characterized by their high toughness and fire resistance: Kermel, Kevlar, Nomex, Twaron...

Anti-pilling: characteristic of a material or treatment avoiding the formation of pilling.

Weave: binding or crossing mode of the threads. The most used armors are taffeta, twill, satin.

Antistatic: treatment limiting the formation of electrostatic charges or, by adding carbon or metal wires, facilitating their removal.

Bias: tape of fabric used during tailoring and cut diagonally

Ribbing: elastic/stretch knitted fabric used to finish sleeves, collars, etc.

Capillarity: phenomenon of interaction which occurs at the interfaces between two immiscible liquids, between a liquid and air or between a liquid and a surface.

Water repellency: characteristic of a poorly absorbent textile on which liquid slides without penetrating.

Lining: light, smooth and flexible fabric that makes it easier to put on the garment.

Cotton: natural plant origin fiber extracted from the hairs of the cotton plant seed. It is characterized by its comfort, its aspect, its facility of implementation. For all uses: clothing, linens, furnishings, and technology...)

Combed cotton: cotton yarn, usually very thin, having undergone a combing operation during spinning.

Coating: Deposition of a specific material on the surface of a fabric to give it particular characteristics ex: tightness, resistance chemical, mechanical...

Ennoblement: the various dyeing, printing, finishing and treatment operations that give the fabrics the flattering and marketable appearance sought.

Textile fibers: classified into 3 categories: natural, chemical, inorganic. Material of reduced length, capable of being spun or used in the production of nonwovens.

Artificial fiber: obtained by the chemical treatment of natural materials: milk caseins for lanital, cellulose from various plants (pine bark, bamboo, soya, birch) for viscose.

Synthetic fiber: crystalline polymer obtained after passing through a die.

Spinning: operation allowing to transform a raw material into mono or multi filaments.

Fluorofibre 'PTFE': synthetic fiber based on polytetrafluoroethylene, used for its properties of non-adherence and chemical inertness, such as Teflon fiber.

Geotextile: textile product used in civil engineering. Their incorporation makes it possible to reinforce, drain or ensure the sealing of the soil to construct engineering structures or buildings.

High tenacity: materials whose mechanical properties have been improved such as dynamometric resistance.

Waterproofing: process aimed at preventing the passage of water through textile articles.

Impregnation: incorporation into textile materials of one or more dissolved or dispersed substances with a view to improving their qualities or giving them new ones.

Transfer printing: process consisting in transferring by thermo-printing-colored designs from a support material (paper) onto the surface of a receiving fabric.

Thermal insulation: ability to regulate the temperature of a fabric by limiting heat exchange.

Jersey: weave with picked stitches comprising only knit stitches on the same side and made on the same row of needles.

Kermel: brand of permanently non-flammable fiber, is used in protective clothing against heat, flames and electric arc.

Kevlar: thermoplastic polymer made up of aromatic nuclei separated by amide groups. It belongs to the family of aramid fibers and is marketed under the registered name Kevlar.

Laminate: complex of several layers of fabrics, nonwovens and/or foams assembled to improve performance.

Warp stitch: warp knit formed by looping a thread on each needle, it takes as many threads as there are needles; does not unravel.

Raw material: material extracted from nature or produced by it, used in the manufacture of finished products.

Textile material: all types of fibers or filaments intended for the manufacture of textile articles.

Membrane: synthetic film laminated on a fabric, it is located inside the product, therefore invisible. The membrane is combined with high-end fabrics and reinforced with other materials to improve performance.

Microporous membrane: film ensuring the water-proofing of a fabric while allowing water vapor to pass through (Gore-Tex, Sympatex, Thinsulate, etc.)

Melton: very thick and soft wool fabric, its specificity is to keep the heat. The quilted fabric contains wadding which is maintained by topstitching.

Meta-aramid: The non-thermoplastic fiber, known for its excellent thermal resistance. Aramid fiber often used in coating stations; it also exists in the form of micro-fiber to obtain better filtration efficiency.

Fire-retardant: textile in which a proportion of the fibers, threads or yarns have been replaced by another material that does not burn in such a way as to seriously reduce its flammability.

Non-woven: textile surface obtained by the mechanical and/or chemical and/or thermal bonding of textile fibers arranged in a sheet.

Quilted: quilted fabric used as is or to line certain garments, such as parkas.

Para-aramid: woven in plain weave, 100% para-aramid fabrics have excellent thermal characteristics. Added to this is excellent resistance to cuts, abrasion, tearing and acids, as well as excellent mechanical and insulating properties.

Piping: thin tape of fabric that is placed between two seams. It protrudes slightly to bring a relief effect to the work.

Worsted: yarn of fine fibers of good quality having undergone a combing operation during manufacture.

Piqué: weaved or shaped fabric, characterized by the relief of its designs, which look like they have been stitched with a needle.

Fleece: soft fabric that protects against the cold.

Lightweight, breathable, fluffy, warm and quick drying, this fabric has it all. Initially used for mountain jackets, it has become a warm item of clothing.

Polymer: chain of molecules resulting from the synthesis of compounds extracted from oil after refining, used in the manufacture of synthetic threads by spinning.

Polymerization: chemical process by which resins, or plastics are fixed to textile materials through heat.

Resistance: characterizes the performance of a textile material against the action of destructive agents: abrasion, fire, light, tearing, bursting stresses, etc.

Rip-stop: tear-resistant fabric. This property does not come from its material but from its weaving reinforced by a complementary fiber. The objective: to obtain a fabric that will not prevent but stop the propagation of any tear on the garment.

Twill: weave characterized by regular oblique ribbing on the face.

Solidity: characterizes the performance of dyed fabrics when they are subjected to various physical or chemical aggressions (washing, light, sweat, chlorine, etc.)

Iron-on: woven or non-woven fabric on which is placed a sticky base that reacts to the heat of the iron.

Thermoregulating: textile that allows the human body to maintain a substantially constant temperature.

Heat setting: process giving dimensional stability to yarns and synthetic fabrics, by moist heat or dry heat.

Fabric: flexible surface formed by the perpendicular interlacing of two sets of threads and/or yarns (warp and weft)

Canvas: basic weave of fabrics in which the crossing of the threads takes place by half, at the ratio 2 threads 2 strokes; is mainly used to characterize fabrics spun from fibers.

Velcro: self-gripping tapes comprising a male element and a female element.

Viscose: often called artificial silk, viscose is an artificial fiber made from wood pulp or cotton.

Workwear: English term for work clothes.



MARTINAS®

Our passion for the industry for more than 30 years, and our total control of the manufacturing process, makes us today, a specialist in protective clothing for firefighters, fire safety and industry.

Our expertise is based on quality values of robustness, audacity, responsiveness, and durability. A true advisor to our customers with its dedicated after-sales customer service, Martinas has acquired a prominent place in the French and global protective clothing market.

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