Prokom was established in 1996, located in Istanbul Tuzla, indoor building area of 5000 sqm with over 90 employee and has continued to grow together with their expanding customer and product range in the course of time. The company has always step ahead of change, this has made our company one of the leader and successful company in the market.

Our enterprise has ISO9001:2008, ISO14001:2004, OHSAS 18001:2007 quality documents and serve its processes from product selection to assemble service and continue after sales support to their customer with young and dynamic staff.

Our company owes to our customers and our staff a debt of gratitude who made our company leader and brand on this field.
## INDEX

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<td>78-81</td>
</tr>
</tbody>
</table>
The following section covers trying to identify the regulations that the industry has created for the dangers or risks that workers come up against every day.

In most countries, adequate technical parameters for protective clothing (PPE) for the correct protection of workers are required through regulations.

01 | **UNE EN ISO 11612**
**PROTECTIVE CLOTHING**
Protective clothing against heat and flame
ISO 11612:2008

02 | **UNE EN ISO 11611**
**PROTECTIVE CLOTHING**
Protective clothing against welding
ISO 11611:2007

All the regulations that regard fire and heat are included in **UNE EN ISO 11612**.

Following is a list of the regulations needed for a protection suit in an aluminium foundry.

**ISO 17493**
Heat resistance up to 110 ºC

**ISO 15025**
Limited flame propagation

The requirement for a foundry suit is A1. Also in stitching. The flame is placed perpendicularly to the surface of the fabric for 10 s and it must comply to the following requirements:

a. No sample must burn to the top or sides
b. Holes must not form in any samples
c. No burned or melted remains must break away from the samples
d. Post-combustion time must be < 2 s
e. Average residual incandescence (1) must be < 2 s

**ISO 9151**
Convective heat

In this regulation, the fabric is subjected to an incident heat flux. The heat that passes through sample is measured using a calorimeter located above, and in contact with, the fabric sample. The time, in seconds, needed for the calorimeter’s temperature to increase 24 ºC ± 0.2 ºC is measured. The minimum required in a foundry is 8, and when the work is carried out near furnaces or crucibles, more protection can be required (82), in which case suits with aluminised fabrics will need to be used.

<table>
<thead>
<tr>
<th>LEVEL OF SPECIFICATIONS</th>
<th>HEAT TRANSFER INDEX HII (W/m²K)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MINIMUM</td>
</tr>
<tr>
<td>B1</td>
<td>4.0</td>
</tr>
<tr>
<td>B2</td>
<td>10.0</td>
</tr>
<tr>
<td>B3</td>
<td>20.0</td>
</tr>
</tbody>
</table>

(1) Incandescence: emission of light produced by heat. All materials emit electromagnetic radiation when they reach or surpass a certain temperature.
A fabric sample is subjected to an incident radiant heat flow. The heat that passes through sample is measured using a calorimeter located behind, and in contact with, the fabric sample. Radiation is halted when the calorimeter temperature reaches 10 °K or after 5 minutes. The time needed, in seconds, to produce the temperature increase in the calorimeter is measured. This time is the length of time that will pass before the person using the suit will start to feel pain due to second degree burns produced by this increase in temperature.

As with the previous regulation, the minimum protection required is C1, though for long-term work in front of furnaces or crucibles a C3 or even C4 level protection is necessary, whereby aluminised suits will be needed.

A metallic cylinder, heated to 250 °C, is placed on the material sample. A calorimeter is placed on the other side of the material, measuring the temperature rise. The time taken for the calorimeter to raise 10 °C is measured. The protection required for a foundry is at least an F1 level.

As well as the thermal performance that 11612 contemplates, we will also comment upon electric arc regulations in this point, which are becoming required more and more for this regulation.

---

**SPLASHES OF MOLTEN METAL**

As mentioned, the regulation that evaluates the behavior of fabrics against splashes of molten metal is **UNE EN ISO 9185**. The level of protection is given by the amount of molten metal that the fabric is capable of withstanding without damage to the token PVC membrane that simulates human flesh.

<table>
<thead>
<tr>
<th>LEVEL OF SPECIFICATIONS</th>
<th>MOLTEN ALUMINIUM (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>D1</td>
<td>100</td>
</tr>
<tr>
<td>D2</td>
<td>200</td>
</tr>
<tr>
<td>D3</td>
<td>350</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL OF SPECIFICATIONS</th>
<th>MOLTEN IRON (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>E1</td>
<td>60</td>
</tr>
<tr>
<td>E2</td>
<td>120</td>
</tr>
<tr>
<td>E3</td>
<td>200</td>
</tr>
</tbody>
</table>

**“Damage to the fabric and the PVC film placed behind it are evaluated.”**

Seven samples are prepared for each material or set of materials in the direction of the warp (except for leather), measuring 260 mm x 100 mm. The same is done with the PVC film (synthetic skin). Different quantities of molten metal are poured onto the material at different angles (see the table) and the damage produced to the fabric and the PVC film, that simulates human skin, under it are evaluated.

<table>
<thead>
<tr>
<th>ALUMINIUM</th>
<th>IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature of the metal</td>
<td>780 °C ± 20 °C</td>
</tr>
<tr>
<td>Pouring angle</td>
<td>60° ± 1°</td>
</tr>
<tr>
<td>Height</td>
<td>225 mm ± 5 mm</td>
</tr>
</tbody>
</table>
All the regulations that regard welding are included in **UNE EN ISO 11611**

Following is a list of the regulations needed for a protection suit for welders.

**ISO 9150**

**Impact of spatter**

- Each material or material garment assemblies shall require:
  - At least 15 drops of molten metal to raise the temperature behind the test specimen by 40 °K for CLASS 1;
  - 25 drops of molten metal to raise the temperature behind the test specimen by 40 °K for CLASS 2

**ISO 9151**

**Heat transfer (radiation)**

- Undergoes a tissue sample to an incident heat flux of 80 kW/m² ± 5%. The heat passing through the sample is measured by a calorimeter located above the fabric and in contact with it. Time is measured in seconds, to produce a rise in calorimeter temperature 24 °C ± 0.2 °C.
  - For CLASS 1: RHTI 24 ≥ 7s;
  - For CLASS 2: RHTI 24 ≥ 16s.

**ISO 5077**

**Dimensional variations**

- Behaviour of fabric when washed, domestic or industrially. In the case of the fabrics used for an aluminium foundry, it cannot be over 3%.

**ISO 13934-1**

**Resistance to traction**

- The resistance to traction of the external material must be at least 300 N for both weave directions.

**ISO 13937-2**

**Resistance to tearing**

- The resistance to tearing of the external material must be at least 15 N for both weave directions.

**ISO 13935-2**

**Seam resistance**

- Tear resistance of the seams in the external material must be at least 225 N.

**GENERAL REQUIREMENTS FOR PROTECTIVE CLOTHING**

With regards to design, when the suit is made up of two pieces (jacket and trousers), the jacket must be long enough to overlap the top of the trousers by at least 20 cm. This minimum overlap must occur in all positions and movements expected during use. The pockets, should they be necessary in the suit, must be made from material complying to regulation EN 15025 (flame propagation).

**ADDITIONAL REQUIREMENTS FOR THE DESIGN OF PROTECTION SUITS AGAINST SPLASHES OF MOLTEN METAL (CODES D AND E)**

- a. The sleeves on jackets and overalls, as well as the cuffs of trousers, will not have a hem.
- b. External pockets on jackets and trousers, except side pockets below the waist that do not form an angle over 10° in relation to the side seam, must be covered by flaps at least 20 mm wider than the pocket aperture.
- c. Patch pockets must be made using materials that comply to the same levels of protection (A to F).
- d. Overlapping seams on the exterior of the garments must face downwards and be fixed in that position.
- e. Closing mechanisms must be designed with a protection flap on the suit exterior. Maximum distance between eyelets is 150 mm. Zippers must lock when they are completely fastened. Cuffs may have mechanisms to reduce their width. Neck apertures must have closing mechanisms.
EN 388: 2003  
GLOVES FOR MECHANICAL RISKS

This standard applies to all kinds of protective gloves in respect of physical and mechanical aggressions caused by abrasion, blade cut, puncture and tearing. The ‘Mechanical Risks’ pictogram is accompanied by a 4-digit code:

a. Resistance to abrasion: based on the number of cycles required to abrade through the sample glove.
b. Blade cut resistance: based on the number of cycles required to cut through the sample at a constant speed.
c. Tear resistance: based on the amount of force required to tear the sample.
d. Puncture resistance: based on the amount of force required to pierce the sample with a standard sized point.

EN 388, 6.1 / Abrasion resistance

This test is carried out using an instrument known as a Martindale tester in which the material to be tested is placed on a bed and a rubbing head of fixed size and weight, covered with a standard abrasive material, is moved in a circular motion over the test specimen. Four samples of the material are tested and the test result is the number of cycles required to rub through the material. The standard abrasive material used in this test is severe in action, it is unusual for textile materials to withstand the 2000 cycles required to meet performance level 3.

EN 388, 6.2 / Blade cut resistance

The instrument used for this test consists of a circular, free rotating blade, under pressure from a standard weight, which is moved backwards and forwards over the surface of the test material over a fixed stroke length. The test result is the number of cycles taken for the blade to cut through the material. To take the sharpness of the blade into account the test is performed using a standard material before and after testing the sample, the mean of these two tests on the standard material is defined as blade cut index 1. The test result is the ratio of the number of cycles required to cut through the sample to the number of cycles required to give blade cut index 1.

EN 388, 6.3 / Tear resistance

In this test a sample of material to be tested is prepared in a standard way and clamped in the jaws of a strength testing machine. The jaws are moved apart at constant speed and the force needed to tear the material measured. For single materials the performance level is given by the lowest result of four tests. For multiple layer items each layer is tested separately, four tests carried out on each material. The performance level is based on the lowest individual result of the most tear resistant material.

EN 388, 6.4 / Puncture resistance

This test uses a standard, rounded point which is pushed through the material at a fixed speed and the force required for the point to penetrate through the material is measured. Where multiple layer materials are involved the layers are assembled and tested as they would be in the garment. Performance levels are awarded in accordance with the lowest of four test results.

### PERFORMANCE LEVEL RATING

<table>
<thead>
<tr>
<th>TEST</th>
<th>PERFORMANCE LEVEL RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Abrasion resistance (cycles)</td>
<td>&lt; 100</td>
</tr>
<tr>
<td>b. Blade cut resistance (factor)</td>
<td>&lt; 1,2</td>
</tr>
<tr>
<td>c. Tear resistance (newton)</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>d. Puncture resistance (newton)</td>
<td>&lt; 20</td>
</tr>
</tbody>
</table>

---

EN 407  
GLOVES FOR THERMAL RISKS

The glove mounted and tested vertically. A flame is placed directly below and in line with the glove at an angle of 30° and a distance of 20mm. The glove is tested for each ignition time i.e. 3 seconds and 15 seconds. The flame time and after glow time for each performance level is as follows:

- **Performance Level 1**: Flame time ≤ 15 seconds, After Glow time ≤ 4 seconds
- **Performance Level 2**: Flame time ≤ 30 seconds, After Glow time ≤ 7 seconds
- **Performance Level 3**: Flame time ≤ 60 seconds, After Glow time ≤ 10 seconds
- **Performance Level 4**: Flame time ≤ 120 seconds, After Glow time ≤ 18 seconds

Radiant Heat is tested according to EN ISO 6942: 2002. The sample is exposed to radiant heat density of 20kW/m² and the time taken for the temperature on the inside of the glove to rise 24°C gives the performance level.

<table>
<thead>
<tr>
<th>PERFORMANCE LEVEL</th>
<th>HEAT TRANSFER INDEX HTI (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td>50</td>
</tr>
<tr>
<td>4</td>
<td>95</td>
</tr>
</tbody>
</table>

Resistence to small splashes of molten metal is tested according to EN 348: 1992. Molten drops from a metal rod melted by exposing the rod to a flame are allowed to fall on the sample. The number of drops required to raise the temperature on the inside of the glove by 40°C gives the performance level.

<table>
<thead>
<tr>
<th>PERFORMANCE LEVEL</th>
<th>NUMBER OF DROPLETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>35</td>
</tr>
</tbody>
</table>

Resistance to large splashes of molten metal is tested according to EN 373: 1993. A quantity of molten iron is poured onto the sample, which has a PVC film mounted behind the sample. This film must not show any changes behind the sample. The number of drops required to raise the temperature on the inside of the glove by 50°C gives the performance level.

<table>
<thead>
<tr>
<th>PERFORMANCE LEVEL</th>
<th>MOLTEN IRON (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>120</td>
</tr>
<tr>
<td>4</td>
<td>200</td>
</tr>
</tbody>
</table>

**Conductive Heat** is tested according to EN 367: 1992. Samples are subjected to the incident heat from a flame, and the heat passing through to the inside of the glove is measured. The time to record a temperature rise of 24°C is the Heat Transfer Index (HTI).

<table>
<thead>
<tr>
<th>PERFORMANCE LEVEL</th>
<th>HEAT TRANSFER INDEX HTI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>18</td>
</tr>
</tbody>
</table>
EN 1149-5
__PROTECTIVE CLOTHING FOR ELECTROSTATIC RISKS__

Standardization
EN 1149-5. 2008 – This European Standard specifies material and design requirements for electrostatic dissipative clothing, used as part of a total earthed system, to avoid incendiary discharges. The requirements may not be sufficient in oxygen enriched flammable atmospheres. This European Standard is not applicable for protection against mains voltages.

Test methods of EN 1149-5
There are 2 different test methods in EN 1149-5. These are EN 1149-1 and EN 1149-3.

EN 1149-1 / Test Method for Measurement of Surface Resistivity

The specimen is placed on an insulating base plate and an electrode assembly is rested on the specimen. A Direct Current (DC) potential is applied to the electrode assembly and the resistance of the fabric is measured. This test determines the resistance over a short distance and is most appropriate for materials for which the electrostatic behavior is based on surface conductivity.

EN 1149-3 / Test Method for Measurement of Charge Decay

The dissipation of electrostatic charge from the surface of materials for garments. A specimen is charged by an induction effect. The induced charge on the test material influence the net field that is observed by a field-measuring probe, positioned above the test surface. The decrease in field is used to determine the half decay time and the shielding factor. This test method is applicable for homogeneous and non-homogeneous materials.

### PHYSICAL REQUIREMENTS

| Dimensional change due to cleaning | ISO 5077 | Max 3% |
| Tensile strength | ISO 13934-1 | 300N |
| Tear strength | ISO 13937-1 | 15N |

### Electrostatic requirements

Materials with conduction threats in stripe or grid pattern, the maximum space shall not exceed 10 mm in one direction.

<table>
<thead>
<tr>
<th>TEST</th>
<th>METHOD</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface resistance</td>
<td>EN 1149-1</td>
<td>&lt; 2.5 x 10⁹ Ω</td>
</tr>
</tbody>
</table>
| Induction Charging | EN 1149-3-2 | • Half decay time < 4 s  
• Shielding factor > 0.2 |

EN 61482-1-2
__PROTECTIVE CLOTHING FOR ELECTRIC ARC RISKS__

This part of the standard specifies test methods and materials of clothing intended to be used in clothing resistant to heat and flame, workers exposed to electric arc. This section uses a directed and constrained electric arc in a low voltage circuit, for the classification of materials and clothes in the defined protection classes. They tested two types of protection:

Class 1: 4 kA
Class 2: 7 kA.

The arc length is set in 500 ms in the two types of testing.

With the method of the test box for materials, the amount of thermal energy transferred by the flat materials is measured during and after the exposure to a specified arc. The behavior of the material under this procedure is determined from the amount of heat transferred through the test tubes and other thermal parameters.

The thermal flux of the exposure and the transferred by the test tube are measured with copper calorimeters. The extent to which the temperature of the calorimeters increases is a direct measure of the thermal energy received. The net energy data are used to assess the onset of a second degree burn using the Stoll curve. The response of the material should be subject to a supplementary description recording the observed effects of exposure to the electric arc on the test tubes.
### MARKO P150

<table>
<thead>
<tr>
<th>Composition</th>
<th>%55 MA Protex / %45 Cotton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (g m²)</td>
<td>155</td>
</tr>
<tr>
<td>Burst Strength</td>
<td>194.98 kPa</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Electric arc</td>
<td>EN EN 61482-1-2, Class1:2007</td>
</tr>
</tbody>
</table>

### MARKO P270AT

<table>
<thead>
<tr>
<th>Composition</th>
<th>%54 MA Protex / %44 Cotton / %2 Anti-Static</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (g m²)</td>
<td>270</td>
</tr>
<tr>
<td>Burst Strength</td>
<td>331.5 kPa</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Electric arc</td>
<td>EN EN 61482-1-2, Class1:2007</td>
</tr>
</tbody>
</table>

### MARKO AT 240

<table>
<thead>
<tr>
<th>Composition</th>
<th>54% MA PROTEX / 44% CO / 2% Anti-Static</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (g m²)</td>
<td>240</td>
</tr>
<tr>
<td>Tensile Strength warp/weft (N/5cm)</td>
<td>780/680</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Welding</td>
<td>EN ISO 11611, Class1:2007</td>
</tr>
<tr>
<td>Electric arc</td>
<td>EN EN 61482-1-2, Class1:2007</td>
</tr>
</tbody>
</table>

### XB9340

<table>
<thead>
<tr>
<th>Composition</th>
<th>%74 Cotton / %25 Twaron® / %1 Anti-Static</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (g m²)</td>
<td>340</td>
</tr>
<tr>
<td>Tensile Strength warp/weft (N/5cm)</td>
<td>1500/1750</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Welding</td>
<td>EN ISO 11611, Class2:2007</td>
</tr>
<tr>
<td>Electric arc</td>
<td>EN EN 61482-1-2, Class1:2007</td>
</tr>
</tbody>
</table>

### Marlan Plus 350

<table>
<thead>
<tr>
<th>Composition</th>
<th>%100 Marlan Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (g m²)</td>
<td>350</td>
</tr>
<tr>
<td>Tensile Strength warp/weft (N/5cm)</td>
<td>1015/890</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Welding</td>
<td>EN ISO 11611, Class2:2007</td>
</tr>
<tr>
<td>Electric arc</td>
<td>EN EN 61482-1-2, Class1:2007</td>
</tr>
</tbody>
</table>

### HM 370/FG-M

<table>
<thead>
<tr>
<th>Composition</th>
<th>%100 rec. Twaron®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (mm)</td>
<td>1.3</td>
</tr>
<tr>
<td>Weight (g m²)</td>
<td>460</td>
</tr>
<tr>
<td>Tensile Strength warp/weft (N/5cm)</td>
<td>1600/450</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Welding</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
</tbody>
</table>

### HM 280/K

<table>
<thead>
<tr>
<th>Composition</th>
<th>%70 Pess® / %30 Twaron®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (mm)</td>
<td>0.5</td>
</tr>
<tr>
<td>Weight (g m²)</td>
<td>370</td>
</tr>
<tr>
<td>Tensile Strength warp/weft (N/5cm)</td>
<td>1500/1100</td>
</tr>
<tr>
<td>Industrial flame &amp; heat hazards</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
<tr>
<td>Welding</td>
<td>EN ISO 11612 A1,A2,B1,C1,F1:2008</td>
</tr>
</tbody>
</table>

One side roughed
<table>
<thead>
<tr>
<th>Composition</th>
<th>Thickness (mm)</th>
<th>Weight (g/m²)</th>
<th>Tensile Strength warp/weft [N/5cm]</th>
<th>Industrial flame &amp; heat hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>%70 Preox® %30 Twaron®</td>
<td>0,7</td>
<td>490</td>
<td>2200/1900</td>
<td>EN ISO 11612 A1,B1,C3,D3,E3,F1:2008</td>
</tr>
<tr>
<td>%100 Viscose</td>
<td>1</td>
<td>590</td>
<td>2200/1700</td>
<td>EN ISO 11612 A1,B1,C3,D3,E3,F1:2008</td>
</tr>
<tr>
<td>%100 Cotton-FR</td>
<td>4,9</td>
<td>1000</td>
<td>Ø311/Ø283</td>
<td></td>
</tr>
<tr>
<td>%100 Twaron®</td>
<td>5,8</td>
<td>90</td>
<td>Ø490/Ø458</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition</th>
<th>Thickness (mm)</th>
<th>Weight (g/m²)</th>
<th>Temperature resistance [°C]</th>
</tr>
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<td>350</td>
<td>180-200</td>
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<td>Min 8</td>
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<th>Weight (g/m²)</th>
<th>Breaking load along [kg/5cm]</th>
<th>Breaking load across [kg/5cm]</th>
<th>Reaction to fire</th>
<th>Smoke Class</th>
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METAL SPLASH RESISTANT SUITS
**ECONOMY JACKET**
- Made of BG9035 fabric
- Flame retardant reflective band at front and back
- Fabric Weight: 350g/m²
- Front closure with press studs and FR zipper
- Art. NO: ECO-J1

**ECONOMY TROUSERS**
- Made of BG9035 fabric
- 2 side seam pockets
- Slit closure with FR zipper
- Flame retardant reflective band at cuff
- Fabric Weight: 350g/m²
- Art. NO: ECO-T1

**ECONOMY OVERALL**
- Made of BG9035 fabric
- 2 side seam pockets, 2 chest pockets and 2 back pockets
- Front closure with press studs and FR zipper
- Flame retardant reflective band at chest and cuff
- Elastic band at waist
- Corrugated back design for comfortable usage
- Pocket for reaching inner garment upon request
- Art. NO: ECO-OA

Marlan Plus 350 has far superior cryolite resistance compared other fabrics in same thickness. According to EN ISO 9185, it resists 100g of cryolite splash.
**WELDER PRO JACKET**

- Made of XB9340 fabric
- Flame retardant reflective band at front and back
- 1 chest pocket and 1 waist pocket
- Fabric Weight: 340g/m²
- Art. NO: WELD-J1

**WELDER PRO TROUSERS**

- Made of XB9340 fabric
- 2 side seam pockets and 1 back pocket
- Slit closure with FR zipper
- Flame retardant reflective band at cuff
- Fabric Weight: 340g/m²
- Art. NO: WELD-T1

**MULTI GUARD JACKET**

- Made of Marlan 350 fabric
- Flame retardant reflective band at front and back
- Fabric Weight: 350g/m²
- Art. NO: MUG-J1

**MULTI GUARD TROUSERS**

- Made of Marlan 350 fabric
- 2 side seam pockets
- Slit closure with FR zipper
- Flame retardant reflective band at cuff
- Fabric Weight: 350g/m²
- Art. NO: MUG-T1

**EN 11612**

<table>
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<th>B1</th>
<th>C1</th>
<th>E2</th>
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| Class 2 | A5/A2B | C1 | B1 | F1 |

**EN 11611**

| Class 2 | A5/A2B | C1 | B1 | F1 |

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**Marlan Plus 350** has far superior cryolite resistance compared to other fabrics in the same thickness. According to EN ISO 9185, it resists 100g of cryolite splash

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**Did you know?**
INDIVIDUAL PROTECTION
**ARC GUARD SUIT**

- Made of Marko AT240 fabric
- Flame retardant reflective band at chest, back, cuff
- Fabric Weight: 240g/m²
- 2 side seam pockets
- Slit closure with FR zipper
- Jacket Art. NO: ARC-J1
- Trousers Art. NO: ARC-T1

**ARC GUARD ULTRA SUIT**

- Made of 2 layer of Marko AT240 fabric
- Flame retardant reflective band at chest, back, cuff
- Fabric Weight: 2x240=480g/m²
- 2 side seam pockets
- Slit closure with FR zipper
- Jacket Art. NO: ARCU-J1
- Trousers Art. NO: ARCU-T1

**MARKO LIGHT SHIRT**

- Made of Marko P150 knit fabric
- Fabric Weight: 155g/m²
- Long-sleeve Art. NO: MKK15-L
- Short-sleeve Art. NO: MKK15-S

**MARKO HEAVY SHIRT**

- Made of Marko P270AT knit fabric
- Fabric Weight: 270g/m²
- Long-sleeve Art. NO: MKK27-L
- Short-sleeve Art. NO: MKK27-S
**Metal Guard Half Aluminized Jacket**

- Designed for areas where only molten metal or radiant heat exposures from front side.
- Breathable design with non-aluminized back side fabric.
- FR Velcro band on front with press studed closure flap.
- Elevatable collar protects neck area.

**Metal Guard Half Aluminized Trousers**

- Breathable design with 2 ventin eyelet under crotch area.
- Silt closure with FR zipper.
- 2 side seam pockets.
- Extra removable lining on-request for more hygienic usage.
**METAL GUARD JACKET**

- Breathable design with back ventilation gap and 2 venting eyelet under each arm
- Inner collar with FR Cotton lining
- FR Velcro band on front with press studded closure flap
- Extra removable lining on-request for more hygienic usage
- Elevatable collar protects neck area

**METAL GUARD TROUSERS**

- Breathable design with 2 venting eyelet under crotch area
- Press studded closure flap
- No pockets as per standard
- Extra removable lining on-request for more hygienic usage

<table>
<thead>
<tr>
<th>FABRICS</th>
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</tr>
</thead>
<tbody>
<tr>
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</table>

**METAL GUARD SLEEVED APRON**

- Breathable design with open back design
- Adjustable leather belt on waist
- Quick release listener and velcro band closure on nape
- No pockets as per standard
- Twaron® felt collar to avoid chin irritation

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</table>
METAL GUARD
FOUNDRY COAT

- Breathable design with back ventilation gap and 2 venting eyelets under each arm
- Inner collar with FR Cotton lining.
- FR Velcro band on front with press studed closure flap.
- Side on back side for more comfortable usage
- Extra removable lining on request for more hygienic usage
- Elevatable collar protects neck area

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METAL GUARD
BIB APRON

- Elastic band at neck
- Adjustable leather belt on waist
- Additional pockets upon request for tools

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</table>
HAND AND ARM PROTECTION
PROWELD
- Water resistant split leather
- Palm lining: Cotton fleece
- Cuff lining: Denim
- Length: 40cm
- Art. No: TM-AW-PRO

REFLECT WELD
- Front side and cuff Aluminized Preox fabric
- Water resistant split leather
- Palm lining: Cotton fleece
- Cuff lining: Denim
- Length: 40cm
- Art. No: TM-AW-REF

REFLECT WELD ECO
- Front side Aluminized Preox fabric
- Water resistant split leather
- Palm lining: Cotton fleece
- Cuff lining: Denim
- Length: 40cm
- Art. No: TM-AW-REFE

APPLICATION AREA
- Foundry and metal processing
- Glass Industry
- Furnaces
- Welding
- Handling of hot components

Protective gloves against all industrial hazards like heat, flame, cutting edges, blade cuts, welding, etc. All products are sewn with Twaron® yarn developed in consideration of customers satisfaction. We accompany to our customers from site research to certification time period to find the best solution.
**HEAT GLOVES**

**PRO 280**
- Heavy weight Cotton Terry fabric
- Length: 38cm
- Art. No: TM-W-280
- Main usage area: Glass Industry

**PRO 300**
- Heavy weight Twaron® Terry fabric
- Palm lining: Mixed felt
- Flexible and comfortable usage
- Length: 36cm
- Art. No: TM-W-300
- Main usage area: Refactory Industry

**PRO 302**
- Heavy weight Twaron® Terry fabric
- Ambidextrous
- Palm lining: Mixed felt
- Flexible and comfortable usage
- Length: 36cm
- Art. No: TM-W-302
- Main usage area: Refactory Industry

**PRO 350**
- Medium weight Twaron® felt
- Palm Linning: Heavy weight Meta-aramid mixed felt
- Cuff lining: Cotton fabric
- Elastic tape at wrist
- Length: 31cm
- Art. No: TM-W-350
- Main usage area: Aluminium Casting & Extrusion Industry

**AutoCut**
- Water resistant split leather
- Palm lining: Cut 5 HPPE knit
- Length: 36cm
- Art. No: TM-AW-AC
- Main usage area: Automotive Industry

**AutoCut Eco**
- Water resistant split leather
- Palm lining: Cut 5 HPPE knit
- Cuff: Heavy weight cotton
- Length: 36cm
- Art. No: TM-AW-AE
- Main usage area: Automotive Industry

**PRO 303**
- Water resistant split leather
- Lining: Cut 3 Twaron® knit
- Front side: Split leather + Denim
- Elastic tape reinforced wrist
- Length: 25cm
- Art. No: TM-AW-303
- Main usage area: Glass Industry

**PRO 350**
- Water resistant split leather
- Palm lining: Cut 5 HPPE knit
- Cuff: Heavy weight cotton
- Length: 36cm
- Art. No: TM-AW-AC
- Main usage area: Automotive Industry
PRO 360
- Heavy weight Preox fabric
- Lining: Meta-aramid mixed felt + Cotton fleece
- Ambidextrous
- Length: 31 cm
- Art. No: TM-H-360
- Main usage area: Aluminium Casting & Extrusion Industry

PRO 410
- Medium weight Twaron® fabric
- Lining: Cotton fleece
- Length: 31 cm
- Art. No: TM-H-410
- Main usage area: Iron-Steel Industry

PRO 620
- Medium weight Twaron® Terry fabric
- Split leather reinforced palm
- Cuff: Split leather
- Length: 31 cm
- Art. No: TM-H-620
- Main usage area: Iron-Steel Industry

PRO 1000
- Heavy weight Preox fabric
- Lining: Meta-aramid mixed felt
- Length: 34 cm
- Art. No: TM-H-1000
- Main usage area: Iron-Steel Industry

PRO 1050
- Heavy weight Preox fabric
- Lining: Meta-aramid mixed felt + Cotton fleece
- Ambidextrous
- Length: 50 cm
- Art. No: TM-H-1050
- Main usage area: Refractory Industry

PRO 1100
- Heavy weight Preox fabric
- Lining: Meta-aramid mixed felt
- Ambidextrous
- Length: 50 cm
- Art. No: TM-H-1100
- Main usage area: Refractory Industry

PRO 801
- Medium weight Twaron® fabric
- Palm lining: Mixed felt + Cotton fleece
- Front side: Split leather
- Cuff: Split leather
- Length: 31 cm
- Art. No: TM-H-801
- Main usage area: Glass & Iron-Steel Industry

PRO 802
- Medium weight Twaron® fabric
- Palm lining: Mixed felt + Cotton fleece
- Front side: Heavy weight Twaron® fabric
- Cuff: Split leather
- Length: 36 cm
- Art. No: TM-H-802
- Main usage area: Glass & Iron-Steel Industry
PRO 890
- Palm: Interlock fleece Twaron® fabric
- Palm lining: Interlock fleece Twaron® fabric
- Front side Aluminized Preox fabric
- Front & Cuff lining: light weight Twaron® fabric
- Cuff: Cotton fleece
- Length: 27 cm
- Art. No: TM-H-890
- Main usage area:
  Iron-Steel & Casting Industry

PRO 900
- Medium weight Twaron® fabric
- Lining: Meta-aramid mixed felt
- Front: Aluminized Twaron® fabric
- Cuff: Medium weight Twaron® fabric
- Length: 33 cm
- Art. No: TM-H-900
- Main usage area:
  Iron-Steel & Casting Industry

PRO 930
- Medium weight aluminized Twaron® fabric
- Palm: Medium weight Twaron® fabric
- Leather protection on wrist
- Lining: Cotton fleece
- Length: 44 cm
- Art. No: TM-H-930
- Main usage area:
  Iron-Steel & Casting Industry

PRO 940
- Palm: Heavy weight high quality leather
- Front: Heavy weight aluminized Twaron® fabric
- Cuff: Aluminized viscose
- Lining: Meta-aramid mixed felt + cotton fleece
- Length: 42 cm
- Art. No: TM-H-940
- Main usage area:
  Iron-Steel & Casting Industry

PRO 950
- Heavy weight double side silicone coated fabric
- Ambidextrous
- Lining: Meta-aramid mixed felt
- Cuff: Aluminized Glass fabric
- Length: 40 cm
- Art. No: TM-H-950
- Main usage area:
  Glass Industry

PRO 960
- Aluminized Preox fabric
- Lining: Meta-aramid mixed felt
- Thumb reinforced with heavy weight Twaron® fabric and felt
- Cuff: Double layer meta-aramid mixed felt
- Ambidextrous
- Length: 28 cm
- Art. No: TM-H-960
- Main usage area:
  Casting Industry

PRO 690
- Medium weight Twaron® fabric
- Lining: Meta-aramid mixed felt
- Front and cuff: Split leather
- Length: 28 cm
- Art. No: TM-H-690
- Main usage area:
  Casting Industry

PRO 1250
- Heavy weight Twaron® fabric
- Lining: Meta-aramid mixed felt + insulation fabric
- Thumb reinforced with heavy weight Twaron® fabric and felt
- Cuff: Double layer meta-aramid mixed felt
- Ambidextrous
- Length: 29 cm
- Art. No: TM-H-1250
- Main usage area:
  Aluminium Casting & Extrusion Industry
PRO 1300

- Heavy weight PBI fabric
- Lining: Heavy weight
- Meta-aramid mixed felt + cotton fleece
- Cuff: Heavy weight Twaron® fabric
- Ambidextrous
- Length: 33cm
- Art. No: TM-H-1300
- Main usage area: Aluminium Casting & Extrusion Industry

PRO 1410

- Heavy weight Twaron® fabric
- Liner: Heavy weight cotton Terry knit
- Length: 32cm
- Art. No: TM-H-1410
- Main usage area: Glass

CHAIN GLOVE

- Stainless steel chain
- Twaron® Terry fabric
- Palm lining: Medium weight Twaron® Felt
- Fingertip: Twaron® Terry fabric
- Front and cuff: Medium weight Twaron® Felt
- Length: 32cm
- Art. No: TM-H-CHN
- Main usage area: Rebar Mill Process

COVER HEAT GLOVES

AIR IS THE BEST THERMAL INSULATION!
The thermal resistance of a glove is obtained by integrating air into fabrics. The best performing materials are fabrics knitted in the form of small loops (like terry fabrics)

PRO 2500

- Meta-aramid mixed felt
- Palm lining: Wool felt + FR Cotton fabric
- Cuff: Heavy weight Twaron® fabric
- Cap: Heavy weight Twaron® fabric
- Ambidextrous
- Length: 32cm
- Full glove Art. No: TM-H-2500
  Cap Art. No: 1442505001

PRO 7250

- Twaron® Terry fabric
- Palm lining: Medium weight Twaron® Felt + Terry cotton knit
- Cuff: Heavy weight Twaron® fabric
- Cap: 2 layer Heavy weight Twaron® fabric
- Ambidextrous
- Length: 33cm

HT-90 Cap
PRO 7265
- Up to 900°C
- Art. No: TM-H-7265

PBI Cap
PRO 7260
- Up to 750°C
- Art. No: TM-H-7260
- Main usage area: Aluminium Casting & Extrusion Industry

PRO 1410

- Heavy weight Twaron® fabric
- Liner: Heavy weight cotton Terry knit
- Length: 32cm
- Art. No: TM-H-1410
- Main usage area: Glass
TAILOR MADE CUFFS

METAL GUARD CUFF
FOR RADIANT HEAT AND MOLTEN METAL SPLASHES

- Suitable for radiant heat protection
- Elastic tape at wrist
- FR Velcro fastener at end
- Wide elbow cut
- Liner upon request
- Art. No: TM-C-MEG

PROWELD CUFF
FOR WELDING AND SPARKS

- Designed for welding process
- Twaron® palm protection
- 5-finger model upon request
- Elastic band and FR velcro fastener at end
- Art. No: TM-C-PWC

PROKNIT CUFF
FOR CUT PROTECTION

- Fleece Twaron® interlock fabric
- Twaron® palm protection
- 5-finger model upon request
- Elastic band and FR velcro fastener at end
- Art. No: TM-C-PKC

KNITTED PRODUCTS

With our latest machine park, we can produce every type of knitted cuffs from 10cm length to 65cm length and knitted gloves from 7 gauge to 13 gauge depending on customers demand.

APPLICATION AREA
- Metal Handling
- Automotive
- Metal Fabrication

With our latest machine park, we can produce every type of knitted cuffs from 10cm length to 65cm length and knitted gloves from 7 gauge to 13 gauge depending on customers demand.

APPLICATION AREA
- Metal Handling
- Automotive
- Metal Fabrication

EN 388
EN 11612
EN 11611
EN 11612
Class 2
**KNITTED GLOVES**

**INSPECT KNIT**
- 100% PE
- 13 Gauge
- Light-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-IR

**COTTON DAILY**
- 100% Cotton
- 10 Gauge
- Medium-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-CD

**LIGHT SHIELD**
- 100% Twaron®
- 13 Gauge
- Cut 3 resistance
- Light-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-LS

**MEDIUM SHIELD**
- 100% Twaron®
- 10 Gauge
- Cut 4 resistance
- Medium-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-M5

**HEAVY-SHIELD**
- 100% Twaron®
- 7 Gauge
- Cut 5 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-H5

**HEAVY-SHIELD PLUS**
- 100% Twaron® Maple & Continuous fiber
- 7 Gauge
- Cut 5 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-HSP

**LIGHT HYBRID**
- SS wire reinforced Twaron® & Elastane
- 13 Gauge
- Cut 5 resistance
- Light-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-LHYB

**HEAVY HYBRID**
- SS wire reinforced Twaron® & Elastane
- 7 Gauge
- Cut 5 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-HHYB
HEAVY-SHIELD THERMAL 4
- %100 Twaron®
- Cotton knit liner
- 10 Gauge
- Cut 4 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-HST4

HEAVY-SHIELD THERMAL 5
- %100 Twaron®
- Cotton knit liner
- 7 Gauge
- Cut 5 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-HST5

HEAVY-SHIELD ULTRA
- %100 Twaron®
- Double Cotton knit liner
- 7 Gauge
- Cut 5 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-HSU

HEAVY-SHIELD PVC
- %100 Twaron®
- PVC Dotted
- 7 Gauge
- Cut 5 resistance
- Heavy-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-HSP

POLY DOTTED
- %100 PA
- PVC Dotted
- 7 Gauge
- Cut 3 resistance
- Medium-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-POD

MEDIUM-SHIELD SPLIT
- %100 Twaron®
- PVC Dotted
- 7 Gauge
- Cut 3 resistance
- Medium-weight
- Superior breathability
- Ergonomic fit
- Art. No: KP-G-MSS

HPPE SPLIT
- %100 HPPE
- Cut 5 resistance
- Split leather palm reinforcement
- 10 Gauge
- Medium-weight
- Ergonomic fit
- Art. No: KP-G-HPPE

HYBRID SPLIT
- SS wire reinforced Twaron® & Elastane
- 10 Gauge
- Split leather palm and purlicue reinforcement
- Extra finger height
- Cut 5 resistance
- Ergonomic fit
- Wrist protection with hanger
- Art. No: KP-G-HS

EN 388
EN 407
2538
4343X
453X
43XXXX
43432X
4443XX
**KNITTED CUFFS**

**1 FINGER FLAT LOOP SLIT**

**1 FINGER ROUND OVERLOCK**

**5 FINGER FLAT LOOP SLIT**

**PROSAFE HEAVY WRIST BAND**

- 100% Twaron®
- Cut 4 resistance
- Double layer
- Superior breathability
- Ergonomic fit
- Art. No: KP-C-PC

**PROSAFE LIGHT WRIST BAND**

- 100% Twaron®
- Cut 4 resistance
- Thin knit weave
- Superior breathability
- Ergonomic fit
- Art. No: KP-C-PKWB

**PROSAFE CUFF**

- 100% Twaron®
- Cut 4 resistance
- Double layer
- Superior breathability
- Ergonomic fit
- Art. No: KP-C-PC

**HPPE CUFF**

- 100% HPPE
- Cut 5 resistance
- 10 gauge
- Superior breathability
- Ergonomic fit
- Art. No: KP-C-HPPE

**HYBRID CUFF**

- SS wire reinforced Twaron®
- Cut 5 resistance
- 10 Gauge
- Superior breathability
- Ergonomic fit
- Art. No: KP-C-HC

**HYBRID FLEX CUFF**

- SS wire reinforced Twaron®
- Cut 5 resistance
- 7 Gauge
- Superior breathability
- Ergonomic fit
- Art. No: KP-C-HFC
HEAD AND FOOT PROTECTION
METAL GUARD FACE PROTECTION

1. METAL GUARD VISOR
   Art. No: HP-MEG-VIS

2. HELMET COVER AND NECK PROTECTION
   Art. No: HP-MEG-HCNP

3. FLIP-UP MOUNTING
   Art. No: HP-AC-FUM

4. HEAT PROTECTION SCREEN
   Art. No: HP-AC-HPS

COMFORT FACE PROTECTION

1. GOLD COATED ALL-ROUND VISOR
   Art. No: HP-AC-GCAV

2. SCHUBERT BOP HELMET
   Art. No: HP-AC-BPH

3. METAL GUARD NECK PROTECTION
   Art. No: HP-MEG-NP

4. FLIP-UP MOUNTING
   Art. No: HP-AC-FUM

HELMET VARIATIONS

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**WELDHOOD**

- Made of XB9340 fabric
- Ventilation gap on nape
- Wide cut for comfortable usage
- Art. No: HP-WH

**TWARON® KNITTED HOOD**

- Made of knitted Twaron® fabric
- Flexible and breathable design
- Art. No: HP-TWNH

**ACCESSORIES**

**BOP HELMET**

- The helmet is made of glass fibre polyester (UP-GF)
- It is resistant to deformation under high temperatures
- Therefore it can be used in high temperature operations
- The helmet has got a high notched impact strength and stiffness of the sides
- The material is resistant against chemical impacts and it has a high aging durability
- Due to the ergonomic and adjustable 6-point-belt-interior the helmet has got a high wearing comfort and a firm fit
- The helmet is available in many different standard colours
- Art. No: HP-AC-BPH

**BEN HELMET**

- The helmet is made of phenol-textile-resin
- It is resistant to deformation under high temperatures
- Therefore it can be used in high temperature operations
- The helmet has got a high notched impact strength and stiffness of the sides
- The material is unbreakable in very low temperatures
- Due to the ergonomic and adjustable 6-point-belt-interior the helmet has got a high wearing comfort and a firm fit
- The helmet is available in brown colour
- Art. No: HP-AC-BNH

**METAL GUARD VISOR**

- Made of Aluminized Preox fabric
- Black gabardine liner
- Designed for use with aluminium frame
- Reflects 96% of radiant heat up to 1000°C
- Art. No: HP-MEG-VIS
GOLD COATED ALL-ROUND VISOR

- The visor is made of polycarbonate 1 mm thick
- Excellent optical quality
- Good UV protection
- High notched impact strength
- High temperature resistance -50°C up to +135°C
- Reflects up to 94% of the radiant heat
- IR-protection shade 4-5
- Dimensions: 500x250mm
- Art. No: HP-AC-GCAV

TRANSPARENT ALL-ROUND VISOR

- The visor is made of polycarbonate 1 mm thick
- Excellent optical quality
- Good UV protection
- High notched impact strength
- High temperature resistance -50°C up to +135°C
- Reflects up to 94% of the radiant heat
- IR-protection shade 4-5
- Dimensions: 500x250mm
- Art. No: HP-AC-GAV

ALUMINIUM FRAME

- The alu-window frame is made of aluminium sheet 1 mm thick
- It is bent and built in heat protection suits
- In the window fit PC-visors and visors made of laminated glass
- With the measurement 220x100 m
- The visors are locked with a screw and can easily exchanged
- Art. No: HP-AC-AF

FLIP-UP MOUNTING

- The universal-visor carrier is suitable for all standard helmets
- Easy handling of the carrier when mounting on helmet
- Firm fit on helmet due to strong spring
- The visor carrier is made of stable aluminium-profiles and is heat- and corrosion-resistant
- High sealing due to a wide overlap of the profiles
- The visor can be flipped up with a 4-level joint
- The visor is fixed with a rotary latch or a clip-lock
- Art. No: HP-AC-FUM

HEAT SHIELD

- The visor is made of polycarbonate 1 mm thick
- Excellent optical quality
- Good UV protection
- High notched impact strength
- High temperature resistance -50°C up to +135°C
- Reflects up to 94% of the radiant heat
- IR-protection shades 4-4 and 4-5
- Art. No: HP-AC-HS

FOOT PROTECTION

GAITER

- Easy to use
- Closure with Velcro fastener or snaps
- Elastic tape at top
- Also available with spring steel

SPLIT LEATHER GAITER

- Art. No: FP-LET

METAL GUARD GAITER

- Art. No: FP-MEG

Did you know?

Using gaiters, prevents molten metal or spark burns, also prolongs lifetime of the work trousers with small expense.
SharpsMaster II® 9014
- Highest needlestick resistance available provided by the layering of SuperFabric® brand material
- Highest level of cut resistance in enhanced areas – exceeds ISEA/CE Level 5
- Single-glove needle solution with incredible dexterity and comfort
- Wrinkle rubber palm coating with Actifresh™ antimicrobial treatment
- Art. No: HEX-9014

SharpsMaster HV™ 7082
- Highest needlestick resistance available provided by the layering of SuperFabric® brand material
- Tested using actual 25 gauge needles (modified ASTM 1342-05 test)
- Highest level of cut resistance on noted enhanced areas, exceeds ISEA/CE level 5
- Single-glove needle solution with incredible dexterity and comfort
- Flat nitrile dip
- Launderable
- Art. No: HEX-10302

GGT5® Mud Grip® 4021X
- SuperFabric® brand material palm provides ISEA level 5 cut resistance and maintains the highest level of protection available in the industry
- Durable TP-X® palm reinforcement utilizes the highest level of abrasion resistance while maintaining an oil-resistant grip
- Full Impact Exoskeleton™ with high-performance TP-X® smash guards provides greater impact protection than the leading competitor
- HexArmor Mud grip® provides reliable grip in dry or light oil situations
- Exterior and interior seams implement a double stitched core-spun thread, adding further durability and longevity
- Reinforced index finger and thumb saddle extends glove life
- Breathable Airprene™ SlipFit® cuff secures fit and improves comfort
- Hi-vis color scheme increases visual awareness
- Launderable
- Art. No: HEX-4021X

The Ugly Mudder® 7310
- PVC-Nitrile coating provides a liquid-resistant barrier while providing enhanced grip and abrasion resistance
- Full back-of-hand impact protection
- High temperature, complete curing ensures optimized plasticizing and cross-linking
- Particle palm for exceptional oil grip and added durability and abrasion resistance
- Safety cuff for easy on and off
- Art. No: HEX-7310

SteelLeather® III 5033
- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE level 5 (in noted enhanced areas)
- Innovative industrial puncture protection on enhanced areas from wires, metal, wood, and glass
- Comfortable cow grain leather that will outlast your typical leather driver’s gloves
- Hi-vis knuckle patch for better visibility
- May be dry-cleaned for repeated use
- Art. No: HEX-5033

Chrome Series® 4026
- SuperFabric® brand material palm provides ISEA level 5 cut resistance and maintains the highest level of protection available in the industry
- Superior back-of-hand impact protection system utilizes an advanced design to dissipate forceful blows over a large area
- HexArmor Mud grip® palm provides reliable grip in dry or light oil situations, while increasing abrasion resistance
- Interior seams implement a double stitched core-spun thread, adding further durability and longevity
- Hi-vis color scheme increases visual awareness
- Launderable
- Art. No: HEX-4026
Chrome Core™ Cut 5 4032

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA Level 5
- Oil and abrasion-resistant synthetic leather palm enhances grip in dry and light oil applications, while providing dexterity to utilize tools and equipment
- Launderable
- Art. No: HEX-CLDCC

NXT™ 10-302

- 3-finger cut-resistant SuperFabric® brand material coverage targets primary knife strike areas
- Coretek® fiber keeps hands cool and comfortable while providing best-in-class dexterity
- Launderable and can be sanitized or washed in commercial dishwasher
- Meets European food migration testing (EN 1186:2002 SI 1998 No 1176)
- Ambidextrous, sold in eaches
- Art. No: HEX-10302

ColdRush® Hard Hat Insert with Neck shade

- Extended performance nylon neck shade
- eVapora™ cooling technology wicks away sweat
- Mesh panels for targeted breathability
- Flat seams for comfortable feel against your skin
- Velcro® straps secure ColdRush® inside your hard hat
- Lightweight
- Machine wash, air dry
- Unisex design, one size fits most
- Art. No: HEX-CLDHH

Cold Rush Chest Vest

- eVapora™ cooling technology wicks away sweat
- Contoured design with Velcro® closure for maximum comfort and fit
- Front and back panels designed to cool your upper body
- Extended collar to reach the cooling zone in your neck
- Lightweight
- Machine wash, air dry
- Unisex design, one size fits most
- Art. No: HEX-CLDCV

19” Protective Arm Sleeve

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE Level 5
- Innovative industrial puncture protection from wires, metal, wood, and glass from wrist to bicep
- Won’t fall down like knit sleeves, lightweight and cooler than knit or leather alternatives
- Lasts 13 times longer than competitive sleeves
- Extended cuff with neoprene thumb loop for added back of hand and wrist protection
- Launderable
- Art. No: HEX-AS019S

9” Arm Sleeve

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE Level 5
- Innovative industrial puncture protection from wires, metal, wood, and glass over entire forearm
- Won’t fall down like knit sleeves, lightweight and cooler than knit or leather alternatives
- Ambidextrous, sold in pairs
- Art. No: HEX-AG10009S
9” Arm Guard

- Made with SuperFabric® brand material for the highest cut-resistance available on the market - Exceeds ISEA/CE Level 5
- Innovative industrial puncture protection from wires, metal, wood, and glass over entire forearm
- Won’t fall down like knit sleeves, lightweight and cooler than knit or leather alternatives
- Lasts 13 times longer than competitive sleeves
- Spandex wrist insert with thumb hole
- Adjustable design resists catch hazards and falling particles
- Launderable
- Art. No: HEX-AG9V

Leg Gaiters

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE Level 5
- Highly cut, puncture, and abrasion-resistant, front-to-back leg coverage
- Reflective strip for visibility in low light situations
- Launderable
- Art. No: HEX-9921

PentaArmor®

- SuperFabric® brand material, 8X the Cut-Resistance of Twaron®
- Lightweight Breathability
- Launderable/Durable
- Cost Effective
- Save up to 50% on your annual Arm Guard costs while increasing your protection!
- Art. No: HEX-1010

HexJacket

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE Level 5
- Highly cut, puncture and abrasion-resistant protection
- (HJ02) Heavy duty double layer protection
- Launderable
- Art. No: HEX-HJ01

Protective Apron 24” x 38”

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE Level 5 (in noted enhanced areas)
- Innovative industrial puncture protection on enhanced areas from wires, metal, wood, glass
- Heavy Duty (double layer)
- Lightweight compared to alternatives
- Launderable
- Art. No: HEX-AP382

Protective Apron 36”

- Made with SuperFabric® brand material for the highest cut-resistance available on the market, exceeds ISEA/CE Level 5 (in noted enhanced areas)
- Innovative industrial puncture protection on enhanced areas from wires, metal, wood, and glass
- Heavy Duty (double layer belly patch)
- Lightweight compared to alternatives
- Launderable
- Art. No: HEX-AP3561
FIRE BLANKETS

- UNE-EN 1869:1997 certificated
- PVC - quick release bag in red color
- Handling pockets at two edges for emergency action
- One side PU coated air-tight fabric for prevent secondary deflagration

WELDING BLANKETS

Protecting flammable areas with welding blanket is one of the most important things to prohibit smoldering fires and damages on critical devices. We offer 3 different type for different welding distances: temperature range from 600°C to 1000°C.

**PU BLANKET**
- Double side thin grey PU coating
- Slip-resistant
- Long-term 550°C temperature resistance
- Short-term 600°C temperature resistance
- Additional dimensions upon request

**ALUFIX BLANKET**
- Double side Alufix coating
- Slip-resistant
- Long-term 550°C temperature resistance
- Short-term 600°C temperature resistance
- Additional dimensions upon request

**ALUSILICATE BLANKET**
- One side Alufix, other side Vermiculite coating
- Slip-resistant
- Long-term 1000°C temperature resistance
- Short-term 1300°C temperature resistance
- Additional dimensions upon request

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- PROWELD CUFF
  - TM-C-PWC
- PROKNIT CUFF
  - TM-C-PKC

KNITTED PRODUCTS
- INSPECT KNIT
  - KP-G-GE
- COTTON DAILY
  - KP-G-CD
- LIGHT SHIELD
  - KP-G-LS
- MEDIUM SHIELD
  - KP-G-MS
- HEAVY SHIELD
  - KP-G-HS
- HEAVY SHIELD PLUS
  - KP-G-HSP
- HEAVY HYBRID
  - KP-G-HHYB
- HEAVY SHEILD THERMAL 4
  - KP-G-4M4
- HEAVY SHEILD THERMAL 5
  - KP-G-5M4
- HEAVY SHIELD ULTRA
  - KP-G-UM4
- HEAVY HYBRID SPLIT
  - KP-G-HHYB
- SPLIT LEATHER GAITER
  - KP-G-PLG
- HEAT SHIELD FLEX SCREEN
  - KP-G-HS4
- HEAT SHIELD THERMAL 4
  - KP-G-HST4
- HEAT SHIELD THERMAL 5
  - KP-G-HST5
- HEAT SHIELD ULTRA
  - KP-G-HSU
- HEAT SHIELD PVC
  - KP-G-HPP
- HEAT SHIELD THERMAL 4
  - KP-G-HST4
- HEAT SHIELD THERMAL 5
  - KP-G-HST5
- HEAT SHIELD ULTRA
  - KP-G-HSU
- HEAT SHIELD PVC
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