HEAT PROTECTION
Our customers are not like other customers. At least their jobs aren’t. Our customers’ workplaces are often the complete opposite of a nice and cozy office, with a pleasant indoor climate, a comfortable office chair to sit on and coffee within arm’s reach. Our customers spend their working days on oil platforms, alongside roads, in ports and in heavy industry. Often the environments are full of risks and the jobs are demanding, sometimes even highly dangerous.

Our mission is to make sure that they come home to their loved ones – every day. This is our reason for being and this is what drives us to go to work every morning. We’re not sure if safety is in our genes or if it’s developed because of Scandinavia’s harsh climate, but safety has always been important in Sweden. Perhaps this is most evident in Swedish industry, which includes Volvo with its safe cars and Autoliv, the world’s leading automotive safety supplier.

TST Sweden’s motto is saving lives. This is not only our duty, it also makes us feel good. It would be difficult to find anything more meaningful to spend our time on.

Jörgen Lilliebroth, Founder and Managing Director, TST Sweden
Our protective clothing in Marlan® has unique properties and are primarily developed for the aluminium industry. Molten aluminium does not adhere to the fabric and it is both heat and flame resistant according to the classification EN 11612 - A1, B1, C1, D3, E3, F1.

Marlan® provides fantastic comfort because it is so soft and has good ability to absorb moisture. Marlan® also has good anti-static properties because the material is naturally antistatic. Marlan® offers protection against flashes, so-called arc, which can reach temperatures up to 10,000° C. Metal splash can be the result of an electric discharge when anode and cathode meet.

MATERIAL THAT REFLECTS HEAT
Our protective clothing against radiant heat is manufactured in aluminum-coated preox PAN / kevlar. The so-called Alu clothes are mostly used in the steel industry and foundries. The clothes reflects up to 95% of the radiant heat and has the highest rating for molten iron and aluminium.

Certified in accordance with EN 11612 – A, B1, C3, D3, E3, F1. See more info on page 11.

INSULATING MATERIAL
Silicone-coated e-glass fiber, also called TC, insulates from contact heat. Withstands about 250° C.

TST offers a wide range of protection equipment with technically advanced functions, high comfort and high quality. Ever since 1990, when we developed the first collection of protective clothing for heat protection, we have worked in close consultation with end users.

ADVANCED PROTECTIVE EQUIPMENT FOR HEAT PROTECTION

PROTECTION AGAINST RADIANT HEAT

PRODUCTS WITH THIS SYMBOL SHOW OUR PROTECTIVE PRODUCTS FOR RADIANT HEAT

PRODUCTS WITH THIS SYMBOL SHOW OUR PROTECTIVE PRODUCTS FOR MOLTEN METAL

PROTECTION AGAINST MOLTEN METAL

INSULATION MATERIAL
Silicone-coated e-glass fiber, also called TC, insulates from contact heat. Withstands about 250° C.
Heat protection hood in one piece - provides good protection all around. Cannot be opened at the front. The hood is available with two different visors, for different needs of heat radiation protection. Holder for visor is included.

Heat protection covering neck and helmet, with fold-up visor. Available with two different visors, for different needs of heat radiation protection. Holder for visor is included.

**Transparent visor and helmet**
- ART. NO. 1010P10 6250
- ART. NO. 1010P15 6260

**Gold plated visor 3 DIN and helmet**
- ART. NO. 1010P20 6250
- ART. NO. 1010P25 6260

Gaiters are used on top of ordinary footwear. Adjusted and closed with hooks & loops at the back. Held in place with adjustable strap under the arch of the foot. S/M is recommended up to size 41. L/XXL from 42-48.

The apron is easy to put on and take off. Adjustable neck and waistband. Length about 125 cm.

Gloves with silicone-coated e-fiberglass/TC on the whole hand and a bit up on the arm. The material provides extra protection against contact heat. Withstands about 250°C. Lining of Kevlar. About 75 cm long. Sold individually.

Gloves with heat-resistant leather in the palm of the hand. Withstands approx. 250°C. Cotton lining. Length approx. 30 cm. Sold in pairs.

**Transparent visor and helmet**
- ART. NO. 1000820 1001
- ART. NO. 1000820 1002

**Gold plated visor 3 DIN and helmet**
- ART. NO. 1000820 1000

One size ART. NO. 1023800 1000

Sizes S/M, L/XXL ART. NO. 1053000 1000

One size ART. NO. 1000400 1000

One size ART. NO. 1002000 1000

One size ART. NO. 1000200 1000
**COAT FOOTLENGTH**

Foot-length coat with protected hooks&loops closing front or rear. The rear closed is prepared for comfort enhancement spacer pads on the chest. Size S-3XL.

<table>
<thead>
<tr>
<th>Style</th>
<th>ART. NO.</th>
<th>ART. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear closed</td>
<td>1023000 1000</td>
<td></td>
</tr>
<tr>
<td>Front closed</td>
<td>1023050 1000</td>
<td></td>
</tr>
</tbody>
</table>

Foot-length coat with closing in the front. Size S-3XL.

**COAT KNEELENGTH**

Knee-length coat with protected hooks&loops closing in the front or rear. The rear closed is prepared for comfort-enhancing distance pillows on the chest. Size S-3XL.

<table>
<thead>
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<th>ART. NO.</th>
<th>ART. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear closed</td>
<td>1023400 1000</td>
<td></td>
</tr>
<tr>
<td>Front closed</td>
<td>1023450 1000</td>
<td></td>
</tr>
</tbody>
</table>

Knee-length coat with closing in the front. Size S-3XL.

**JACKET**

Jacket with protected hooks&loops closing in the front or rear. The rear closed jacket is prepared for comfort enhancement spacer pads on the chest. Size S-3XL.

<table>
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<tr>
<td>Front closed</td>
<td>1022100 1000</td>
<td></td>
</tr>
</tbody>
</table>

Jacket with closing in the front. Size S-3XL.

**COAT**

Coat with special pocket for gloves at the back. The pocket has an evacuation at the bottom. The cuffs can be adjusted with hooks&loops. Protected closing in the front with hooks&loops and snaps. Adjustable wrist.

**TROUSERS**

Trousers with openable legs, making them easy to put on over other clothes. Closes with hooks&loops. Some adjustment of waist size. Size S-3XL.

**WELDING CLOTH**

With hemmed edge, protection in the corners and eyelets for hanging. Silicone-coated e-fiberglass/TC on one side.

**NECK PROT.**

Neck protection attached to helmet. Prepared to fit many types of helmets.

<table>
<thead>
<tr>
<th>Size approx.</th>
<th>ART. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>900x900 mm</td>
<td>1062020 1805</td>
</tr>
<tr>
<td>1500x900 mm</td>
<td>1062020 1810</td>
</tr>
</tbody>
</table>

Foot-length coat with protected hooks&loops closing front or rear. The rear closed is prepared for comfort enhancement spacer pads on the chest. Size S-3XL.
**HEAT PROTECTION OVERVIEW**

**HOOD FULL PROTECTION**
- Material: Mix of wool and fireproof cellulose fibers
- CE-marking: EN 11612 (A1, B1, C1, D3, E3, F1)
- Seams: Double
- Washing: Hand wash

**NECK- AND HELMET PROTECTION**
- Material: Heat resistant leather in the palm.
- CE-marking: EN 407, EN 388
- Temperature resistance: Approx. 250°C, time limit 18 s.

**GAITERS**
- Material: Silicone coated e-glassfiber/TC on hand and part of arm
- Lining: Kevlar
- CE-marking: EN 407, EN 388
- Temperature resistance: Approx. 250°C

**APRON**
- Material: Mix of wool and fireproof cellulose fibers
- CE-marking: EN 11612 (A1, B1, C1, D3, E3, F1)
- Seams: Double
- Washing: Hand wash

**FIVE FINGER GLOVE**
- Material: Heat resistant leather in the palm.
- CE-marking: EN 407, EN 388
- Temperature resistance: Approx. 250°C

**MITTENS**
- Material: Heat resistant leather in the palm.
- Lining: Cotton + polyester
- CE-marking: EN 407, EN 388
- Temperature resistance: Approx. 250°C

**ARM PROTECTION**
- Material: Silicone coated e-glassfiber/TC (one side).
- CE-marking: EN 407, EN 388
- Temperature resistance: Approx. 250°C

**COAT FOOTLENGTH**
- Size Length
- S 163–175
- M 176–180
- L 181–186
- XL 187–192
- 2XL 193–200
- 3XL 201–206

**COAT KNEELENGTH**
- Size Length
- S 163–175
- M 176–180
- L 181–186
- XL 187–192
- 2XL 193–200
- 3XL 201–206

**JACKET**
- Size Length
- S 163–175
- M 176–180
- L 181–186
- XL 187–192
- 2XL 193–200
- 3XL 201–206

**TROUSERS**
- Size Length
- S 163–175
- M 176–180
- L 181–186
- XL 187–192
- 2XL 193–200
- 3XL 201–206

**WELDING CLOTH**
- Material: Silicone coated e-glassfiber/TC (one side).
- CE-marking: EN 407, EN 388
- Temperature resistance: Approx. 250°C

**MARKED WITH EN 11612 – HEAT AND FLAME**

The numbers given together with the flame symbol may have the following values (1 is the lowest value):
- A - Flame retardant (-)  
  D - Molten aluminium (1-3)
- B - Convection heat (1-3)  
  E - Molten cast iron (1-3)
- C - Radiant heat (1-4)  
  F - Contact heat (1-3)

**NOTES:**

- Size approx. 900x900mm
- Size approx. 1500x900mm

**TECHNICAL EXPLANATIONS**

**SIZE TABLE AND TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Chest circumference</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>163–175</td>
<td>P2</td>
</tr>
<tr>
<td>M</td>
<td>176–180</td>
<td>100</td>
</tr>
<tr>
<td>L</td>
<td>181–186</td>
<td>108</td>
</tr>
<tr>
<td>XL</td>
<td>187–192</td>
<td>116</td>
</tr>
<tr>
<td>2XL</td>
<td>193–200</td>
<td>124</td>
</tr>
<tr>
<td>3XL</td>
<td>201–206</td>
<td>132</td>
</tr>
</tbody>
</table>

**TECHNICAL SPECIFICATION MARLAN®**

- Clothes: Anti-flame and flame-proof materials
- CE-marking: EN 11612 (A1, B1, C1, D3, E3, F1)
- Seams: Double
- Washing: Hand wash

**SIZE TABLE (ALL MEASURES IN CM)**

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
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<td>132</td>
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</tbody>
</table>

**CERTIFIED IN ACCORDANCE WITH ISO 9001:2015 AND ISO 14001:2015**
TRUSTWORTHINESS

Through our actions and our products we shall instil a high level of confidence in our customers, suppliers and business partners.

LONG-TERM APPROACH

In our internal and external relationships, we shall be considered a long-term partner. Our products shall be developed and marketed with a long-term profile, where we want to see customers and suppliers staying with us year after year.

DEVELOPMENTAL

By continuously developing our products and working on innovative new solutions, we will bring products to the market that are of the highest class. Collaborations with universities and suppliers at the forefront of textile materials and treatments are a matter of course for us.