



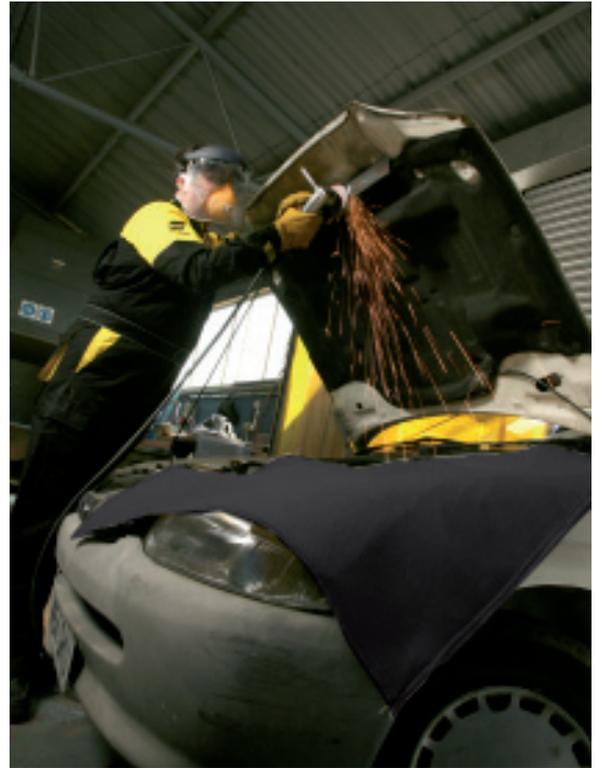
# WELDING BLANKETS

**For protection against welding sparks and spatters**  
**For cooling down of hot objects**

## Welding blankets

Heat resistant fabric and blankets of fibreglass or silicate fibres offer a high degree of protection against welding spatters and important showers of sparks. To shield costly materials ESAB supplies welding cloths and blankets with different temperatures of 550°C to 1300°C.

- **Since applications of welding blankets vary widely, no warranty on the blanket's usage is implied or intended. The user is responsible for determining whether the chosen blanket will provide adequate protection for the application used!**
- Thicker blankets (provided they are from the same material) will provide a higher grade of protection / insulation at a certain temperature.
- Texturized blankets provide better insulation than filament fibre blankets.
- Always use on an incline of at least 15 degrees.
- Always Use more layers initially.
- Free from asbestos and free from ceramic fibres.
- Produced out of 6 or 9 µm filament yarns.  
(= non hazardous to health)



The ESAB Welding blankets are produced using heat and flame resistant fabrics. The blankets provide excellent protection from grinding/welding sparks, slag and drops of molten metal. ESAB offer a wide range of blankets with different characteristics and in many different sizes. The blankets are colour coded.

When selecting the most suitable blanket for the application, the following factors should be considered :

**Positioning of the blanket** - All blanket are to be used on an incline of at least 15 degrees. Sparks hitting a blanket, which is positioned horizontally, will put extra stress on the material and a stronger and more heat resistant blanket should be used.

**Work application** - How to select the proper protection :

### Light duty

Light spark and spatter protection. These fabric should be oriented as a curtain or draped downward to allow the spark and spatter to roll off.

### Medium duty

Medium spark and spatter protection. These fabrics are designed for common, industrial welding applications.

### Heavy Duty

Heavy spark and spatter protection. These fabrics are designed to withstand higher temperatures and have a higher melting point.

### Special Duty

This fabric is designed to withstand higher temperatures for a short time. It is scratch free and very suitable for use in the automotive industry.



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## Light Duty Applications



### Welding blanket 3001 / LD550

Provides an efficient shield against sparks when draped over equipment or flooring surfaces. Ideal vertical screen to protect from spark and spatter. Always use on an incline of at least 15 degrees.

|   |                                       |
|---|---------------------------------------|
| Material: 460 g/m2 fibreglass,<br>special PU coating. | Continuous work temperature: 500° C   |
| Colour: Gray  | Intermittent work temperature: 550° C |
|   | Melting temperature: 800° C           |
| 2m x 1m      0700 008 026                             | 1m x 25m roll      0700 008 028       |
| 2m x 2m      0700 008 027                             |                                       |

## Medium Duty Applications



### Welding blanket 1850 / MD550

Provides an efficient shield against sparks light spatter when draped over equipment or flooring surfaces. Always used on an incline of at least 15 degrees. The 1850/ MD550 blanket is soft and easy to wrap around items as a cooling down blanket at temperatures up to 500°C.

|  |                                       |
|--|---------------------------------------|
| Material: 580 g/m2 fibre glass,<br>heat treated. | Continuous work temperature: 500° C   |
| Colour: Tan                                      | Intermittent work temperature: 550° C |
|  | Melting temperature: 800° C           |
| 2m x 1m      0700 008 023                        | 1m x 25m roll      0700 008 028       |
| 2m x 2m      0700 008 024                        |                                       |



### Welding blanket 2-1900 / MD1300

Good on a horizontal plane to catch and hold spark and spatter, and applications where heavy molten metal is a problem. Always Use more layers initially. The 2-1900/ MD1300 blanket is soft and easy to wrap around items as a cooling down blanket at temperatures up to 900°C.

|   |  |
|---|--|
| Material: 600 g/m2 silica fabric,<br>vermiculite coating. | Continuous work temperature: 1000° C   |
| Colour: Gold  | Intermittent work temperature: 1300° C |
|   | Melting temperature: 1600° C           |
| 2m x 0.9m      0700 008 032                               | 0.9m x 25m roll      0700 008 034      |
| 2m x 1.8m      0700 008 033                               |  |

## Recommendations

- **Before using blankets for the first time, always perform a test.**
- **Use multiple layers** initially for maximum protection from sparks spatter & radiant heat. (After testing less layers can be used!)
- **Use blanket under min. 15° angle.**  
Sparks hitting a blanket, which is positioned horizontally, will put extra stress on the material and a stronger and more heat resistant blanket should be used.
- **WARNING:**  
**Since applications of welding blankets vary widely, no warranty on the blanket's usage is implied or intended. The user is responsible for determining whether the chosen blanket will provide adequate protection for the application used!**





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## Heavy Duty Applications



### Welding blanket 906 / HD750

Designed to give protection from sparks, spatter and slag generated from a fabrication activity. Graphite /PU coating provides long lasting welding aid in high temperature resistance and abrasion resistance.

|   |              |                                       |              |
|---|--------------|---------------------------------------|--------------|
| Material: 1020 g/m2 fibreglass,<br>graphite/PU coating. |              | Continuous work temperature: 550° C   |              |
| Colour: Black   |              | Intermittent work temperature: 750° C |              |
|   |              | Melting temperature: 900° C           |              |
| 2m x 1m   | 0700 008 029 | 1m x 25m roll                         | 0700 008 031 |
| 2m x 2m   | 0700 008 030 |                                       |              |

### Welding blanket 5180 / SD1300

Very good on a horizontal plane to catch and hold spark and spatter. Excellent short time temperature resistance! Excellent blanket for the automotive, paint – body shop repair. Blanket will not scratch surface of car / paint work.



The 5180/SD1300 blanket is NOT TO BE USED as a cooling down blanket!!!!!!!

|                                       |              |  |              |
|---------------------------------------|--------------|--|--------------|
| Material: 425 g/m2 Carbon Fibre Felt. |              | Continuous work temperature: 250° C    |              |
| Colour: Black                         |              | Intermittent work temperature: 1300° C |              |
|                                       |              | Melting temperature: xxxx° C*          |              |
| 2m x 1m                               | 0700 008 035 | 1m x 25m roll                          | 0700 008 037 |
| 2m x 2m                               | 0700 008 036 |  |              |

\* 5180/HD1300 does not melt, but simply evaporates / dissolves if exposed to continuous high temperatures during a prolonged period of time.

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## Quality level

|                            | Fair                        | Good                        |                             | Excellent                        |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|
| <b>Basic material</b>      | <u>E-glass fibre</u>        |                             | <u>Silicate fibre</u>       | <u>Carbon fibre</u>              |
| <b>Material structure</b>  | <u>Filament, flat</u>       |                             | <u>Texturized</u>           |                                  |
| <b>Coating / treatment</b> | <u>PU</u>                   | <u>Caramelized</u>          | <u>Vermiculite</u>          | <u>Graphite</u>                  |
| <b>Material mass</b>       | <u>460 gr/m<sup>2</sup></u> | <u>580 gr/m<sup>2</sup></u> | <u>600 gr/m<sup>2</sup></u> | <u>1020 gr/m<sup>2</sup></u>     |
| <b>Material thickness</b>  | <u>0,40 mm</u>              | <u>0,70 mm</u>              | <u>0,75 mm</u>              | <u>1,50 mm</u><br><u>4,50 mm</u> |

## Selection aid / Technical data

|                            | 3001 / LD550          | 1850 / MD550          | 2-1900 / MD1300       | 906 / HD750            | 5180 / SD1300         |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|
| <b>Basic material</b>      | Fibreglass            | Fibreglass            | Silica fabric         | Fibreglass             | Carbon fibre felt     |
| <b>Material structure</b>  | Filament, flat        | Texturized            | Filament, flat        | Texturized             | Felt                  |
| <b>Coating / treatment</b> | PU                    | Caramelized           | Vermiculite           | Graphite               | n.a.                  |
| <b>Material mass</b>       | 460 gr/m <sup>2</sup> | 580 gr/m <sup>2</sup> | 600 gr/m <sup>2</sup> | 1020 gr/m <sup>2</sup> | 425 gr/m <sup>2</sup> |
| <b>Material thickness</b>  | 0,4 mm                | 0,75 mm               | 0,7 mm                | 1,5 mm                 | 4,5 mm                |
| Temperature continuous     | 500 °C                | 500 °C                | 1000 °C               | 550 °C                 | 250 °C                |
| Temperature intermittent   | 550 °C                | 550 °C                | 1300 °C               | 750 °C                 | 1300 °C               |
| Melting temperature        | 800 °C                | 800 °C                | 1600 °C               | 900 °C                 | n.a.                  |
| Colour                     | gray                  | tan                   | gold                  | black                  | black                 |
| Horizontal use             | --                    | +-                    | ++                    | ++                     | +++                   |
| Vertical use               | +++                   | ++                    | ++                    | +                      | +                     |
| Grinding                   | ++                    | +++                   | ++                    | +                      | +                     |
| All purpose medium         | +                     | +++                   | -                     | -                      | -                     |
| All purpose heavy          | -                     | -                     | -                     | +++                    | +                     |
| Insulation/ cooling down   | --                    | +++                   | ++                    | -                      | --                    |
| Automotive                 | +-                    | +-                    | ++                    | -                      | +++                   |

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