

## Superwool® Plus Textiles



### Type

Textiles made from high temperature insulation wool.

### Classification Temperature

Superwool® Plus™ fibre:	1200°C
Glass reinforcement:	500°C
Steel reinforcement:	1000°C

The maximum continuous use temperature depends on the application. For further information, contact your local Morgan Thermal Ceramics office.

### Main properties

#### Components of the Superwool Plus®™ Yarn

- 76% of Superwool® Plus™ fibre (insulator)
- 18% of organic fibre (insulator support, begins to burn out at 150°C)
- 6% of glass filament or refractory steel wire reinforcement

### Description

Superwool® Plus™ Rope Lagging consists of a strip of Superwool® Plus™ blanket which is overbraided with an E-glass yarn, a refractory steel yarn, or Superwool® Plus yarn with E-glass or refractory steel reinforcement.

Superwool® Plus™ Twisted Rope: Twisted threads made of Superwool® Plus™ fibre yarn reinforced with E-glass or refractory steel.

Superwool® Plus™ Braided Packing: Braid of Superwool® Plus fibre yarn reinforced with E-glass or refractory steel around a core of yarns made of Superwool® Plus reinforced with E-glass yarn. Available in round or square cross section.

Superwool® Plus™ Braided Sleeving: Woven form of Superwool® Plus™ yarn reinforced with E-glass or refractory steel.

Superwool® Plus™ Webbing and Cloth: Woven mesh of Superwool® Plus™ fibre yarn reinforced with E-glass or refractory steel.

### Features

- Low thermal conductivity
- Flexible and easy to use
- Excellent appearance
- Excellent thermal shock resistance
- Resistant to molten aluminium
- Exonerated from any carcinogenic classification under nota Q of directive 97/69 EC
- Exonerated from any use restriction under annexe V number 7.1 of the German hazardous substances regulation

### Type of Reinforcement Yarn or Wire (depending on version)

- E-glass filament or
- Refractory steel wire AISI 310/314 or NF Z 12 CN 25-20

SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). This product may be covered by one or more of the following patents, or their foreign equivalents:- SUPERWOOL® PLUS™ products are covered by patent numbers:- US5714421, US5994247, US6180546, US7259118, and EP0621858. SUPERWOOL® 607HT™ products are covered by patent numbers:- US5955389, US6180546, US7259118, US7470641, US7651965, US7875566, EP0710628, EP1544177, and EP1725503. A list of foreign patent numbers is available upon request to The Morgan Crucible Company plc.

[www.morganthermalceramics.com](http://www.morganthermalceramics.com)

Europe: +44 (0) 151 334 4030 / [marketing.tc@morganplc.com](mailto:marketing.tc@morganplc.com)

North America: +1 (0) 706 796 4200 / [northamerica.tc@morganplc.com](mailto:northamerica.tc@morganplc.com)

South America: +54 (11) 4373 4439 / [marketing.tc@morganplc.com](mailto:marketing.tc@morganplc.com)

Asia: +65 (0) 6595 0000 / [asia.mc@morganplc.com](mailto:asia.mc@morganplc.com)

## Superwool® Plus Textiles

Availability					
Section mm(*)	Twisted Rope	R'nd Braided Packing	Sq. Braided Packing	Braided Sleaving	Rope Lagging
4	125				
5	125				
6	100	100	10		
8	50	100	100		
10	50	40	40		
12	50	25	25		
15	50	20	20	25	25
20	50	20	20	25	25
25	25	10	10	25	25
28	25				
30	25	10	10	25	25
35	10				
40	10	5	5	25	25
50	10	5	5	25	25
60				25	25
80				25	
100				25	

Webbing		
Width mm (*)	Thickness 3mm	Thickness 5mm
20	25	
25	25	
30	25	10
40	25	10
50	25	10
60	25	10
80	25	10
100	25	10
120	25	

Cloth	
Width 1mm	Thickness (*)
30	2
25	3
25	4
10	5

NB: Rope and Braiding are available in 1m coils, Webbing and Cloth in 1m rolls  
 (\*) other diameters, widths and thicknesses available upon request (subject to minimum order requirements).

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

[www.morganthermalceramics.com](http://www.morganthermalceramics.com)

Europe: +44 (0) 151 334 4030 / [marketing.tc@morganplc.com](mailto:marketing.tc@morganplc.com)

North America: +1 (0) 706 796 4200 / [northamerica.tc@morganplc.com](mailto:northamerica.tc@morganplc.com)

South America: +54 (11) 4373 4439 / [marketing.tc@morganplc.com](mailto:marketing.tc@morganplc.com)

Asia: +65 (0) 6595 0000 / [asia.mc@morganplc.com](mailto:asia.mc@morganplc.com)