

Thermal insulating blanket

GB / 2.3 / Rev. 3

SUPERWOOL[®]



odice
PASSIVE FIRE PROTECTION



■ Product description

The **SUPERWOOL® blanket** is a highly flexible product, made from alkaline earth fibres (studied for their solubility in physiological solutions) and contains no binder or lubricant. It therefore releases neither smoke nor odour when the temperature rises.

The **SUPERWOOL® blanket** is an excellent thermal insulator with low thickness. It is easy to use and has high resistance to tearing.

■ Features

The **SUPERWOOL® blanket** possesses the following characteristics:

- Light-weight and flexible.
- No binder or lubricant.
- Needled from both sides, so presents good mechanical strength and resistance to tearing.
- Good thermal and acoustic insulation.
- Stability at continuous temperatures up to 1000°C.
- Ease of handling (cutting, bending, stamping etc.).
- Flexible and resilient.
- Asbestos free.
- A replacement product for ceramic fibres (amorphous fibres).

■ Technical data

Physical properties of SUPERWOOL® blanket

Colour	white
Classification temperature	1200°C
Permanent linear shrinkage after 24 hours (ENV 1094-7) of heating on all surfaces at 1200°C	4%
Apparent density (23°C – 50% RH)	64 to 160 kg/m ³
Tensile strength (ENV 1094-7) Density 128 kg/m ³	75 kPa
Average fibre diameter	4.4 µ

Average chemical analysis

SiO ₂	62-68%
CaO	26-32%
MgO	3-7%
Other	< 1%

Combustibility

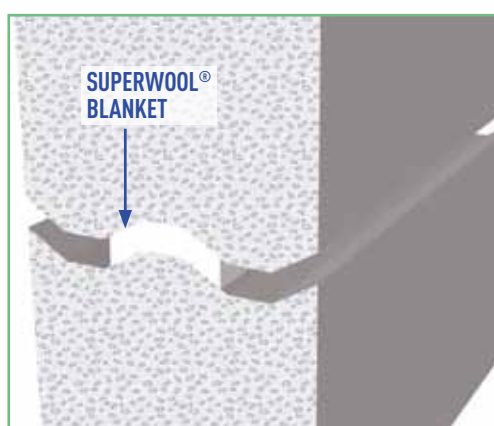
SUPERWOOL® blanket is classified as non-combustible (report on request).

Thermal conductivity (W/m.K) (According to ASTM C201)

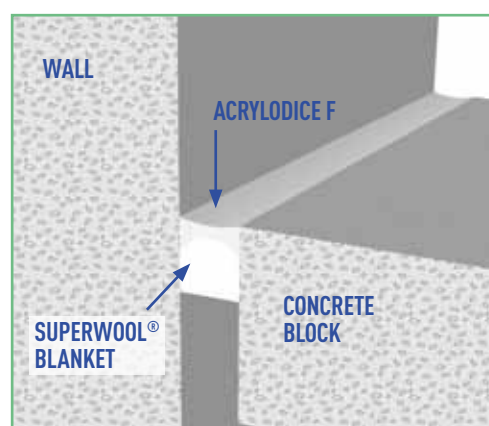
Average temperature	64 kg/m ³	96 kg/m ³	128 kg/m ³	160 kg/m ³
200°C	0,06	0,05	0,05	0,05
400°C	0,10	0,09	0,08	0,08
600°C	0,17 W/m.K	0,14 W/m.K	0,12 W/m.K	0,11 W/m.K

Applications

- Fire retardant & flame-resistant glazing seals (between glass and beads).
- Seals and protection in fire resistant equipment (doors, dampers etc.).
- Backing and filling material for expansion joint.
- Insulation between products with low conductivity and sheet metal.
- Insulation of electrical equipment.
- Insulation and seals in domestic and heating appliances.
- Thermal and acoustic shields (lift doors, transport, marine, etc.).
- Protection of sliders in fire retardant sliding doors.
- Welding shield.



Example of application: fire resistant seal between cellular concrete blocks



Example of application: fire resistant expansion seal

Product range

SUPERWOOL® blanket						
Thickness	Apparent density				Roll length	Standard width
	64 kg/m ³	96 kg/m ³	128 kg/m ³	160 kg/m ³		
6 mm		X	X		5,50 metres	610 mm
13 mm		X	X	X	14,64 metres	
19 mm		X	X	X	9,76 metres	
25 mm	X	X	X	X	7,32 metres	
38 mm	X	X	X		4,88 metres	
50 mm		X	X		3,66 metres	

SUPERWOOL® blanket can be cut or stamped according to your drawings in our workshops.

Other widths on request (starting at 30 mm - tolerance ± 5 mm).

Other variants on request: possibility of laminating with aluminium foil.

Packaging

The SUPERWOOL® blanket is delivered in rolls wrapped in cardboard.

Storage

Store in a dry, well-ventilated area.

Health and safety measures

Observe usual workplace health and safety rules.

Refer to the safety data sheet.

SUPERWOOL® is a registered trademark of The Morgan Crucible Company plc.

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by ODICE hereunder are given free of charge and ODICE assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.



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