

Thermal insulating Paper

GB / 2.2 / Rev. 3

SUPERWOOL®



odice
PASSIVE FIRE PROTECTION



Product description

SUPERWOOL®paper is a highly flexible product, made from alkaline earth fibres (studied for their solubility in physiological solutions) and a small quantity of organic binder. The binder disappears at first use (at 300°C) and was selected to avoid the production of toxic elements or unpleasant smoke. The most modern paper production techniques ensure a uniform fibre distribution and precise control of thickness and density.

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

Features

SUPERWOOL®paper possesses the following characteristics:

- Light-weight and flexible,
- Very low shot content (residues left by fibrilisation),
- Smooth on both sides, therefore of even thickness,
- Good mechanical strength and resistant to tearing,
- Good thermal insulation properties and low thermal conductivity,
- Stability at continuous temperatures up to 1000°C,
- Ease of handling (cutting, bending, stamping etc.),
- Readily adheres using non-combustible **PYROCOL** glue or double-sided adhesive tape,
- Non-irritant to touch,
- Asbestos free,
- A replacement product for ceramic fibres (amorphous fibres).

Physical properties of SUPERWOOL® paper	
Colour	white
Classification temperature	1200°C
Linear shrinkage at 1200°C	≤ 4 %
Loss after ignition	8 %
Density (average)	210 kg/m ³
Tensile strength (EN 1094-1)	> 0,65 Mpa
Average fibre diameter	4,4 µ

Average chemical analysis	
Al ₂ O ₃	1 %
SiO ₂	66 %
CaO - MgO	33 %

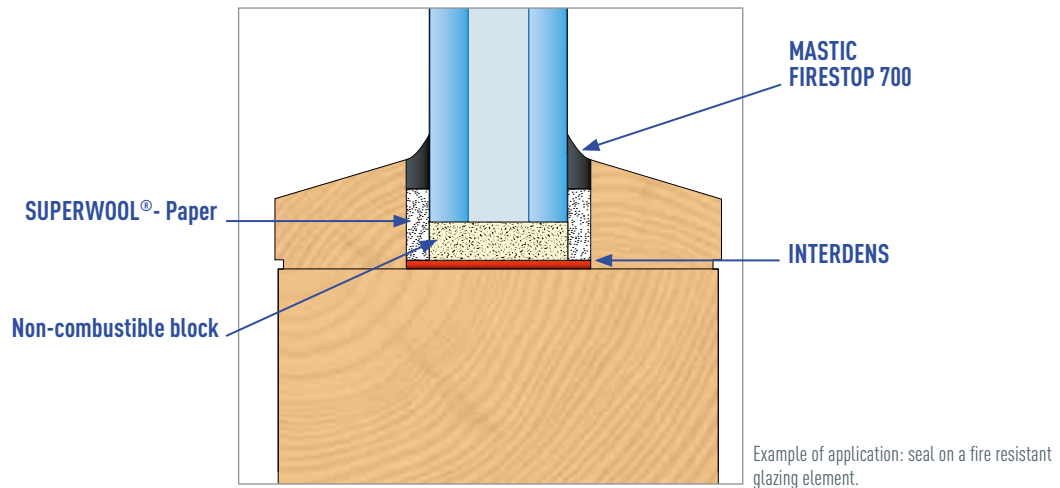
Thermal conductivity- (W/m.K) (EN 1094-1)	
Average temperature	Thermal conductivity
200°C	0,05
400°C	0,07
600°C	0,11
800°C	0,16
1000°C	0,23

Combustibility

SUPERWOOL®paper is classified as non combustible (Report on request).

Applications

- Seals and protection in fire resistant equipment (doors, dampers etc.).
- Protection of lock casings, door closers, panic bars etc.
- Insulation and seals in domestic and heating appliances.
- Thermal and acoustic shields (lift doors, transport, marine etc.).
- Non-combustible backing material for seals on fire resistant glazing elements.



Product range

SUPERWOOL®paper :		
Thickness (under 3 kPa)	Roll length (m)	Roll width
1 mm	40 m	from 15 mm to 1000 mm (cutting tolerance: $\pm 0,5$ mm)
2 mm	20 m	
3 mm	15 m	
4 mm	10 m	
5 mm	10 m	
6 mm	10 m	
8 mm	5 m	
9 mm	5 m	

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

SUPERWOOL®paper paper can receive an adhesive backing (ref SA: Self Adhesive) in order to facilitate installation, or it can be surfaced with aluminium or mica.

Other variants on request.

Other lengths and widths on request.

Packaging

SUPERWOOL® paper 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®-Paper 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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