

Thermal insulating Paper

GB / 2.2 / Rev. 6

SUPERWOOL®



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,
- The maximum continuous use temperature depends on the application,
- 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).

Technical data

Physical properties of SUPERWOOL® paper	
Colour	white
Classification temperature	1200°C
Linear shrinkage at 1000°C	< 2 %
Loss after ignition	12 %
Density	230 kg/m ³
Tensile strength (EN 1094-1)	> 0,65 Mpa
Thickness (measured@kpa)	± 10%

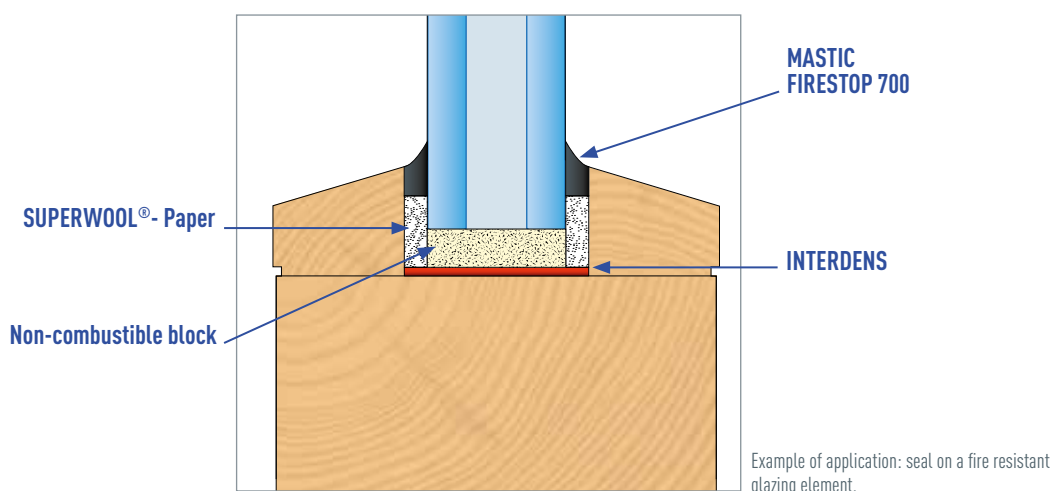
Thermal conductivity- (W/m.K) (ASTM C-201)	
Average temperature	Thermal conductivity
200°C	0,05
400°C	0,07
600°C	0,11
800°C	0,16
1000°C	0,23

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	Roll length (m)	Roll width
1 mm	40 m	from 15 mm to 1000 mm (cutting tolerance: ± 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 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 at room temperature ($20^{\circ}\text{C} \pm 5^{\circ}\text{C}$), normal humidity (50 -70%) and with absence of UV-radiation.

Shelf-life

SUPERWOOL® paper with self-adhesive (SA version): maximum 12 months after delivery date if stored in original packing under proper conditions as described above.

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.

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