

# Thermal insulating Paper

GB / 2.2 / Rev. 5

## 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 <sup>3</sup> |
| Tensile strength (EN 1094-1)            | > 0,65 Mpa            |
| Thickness (measured@kpa)                | ± 10%                 |

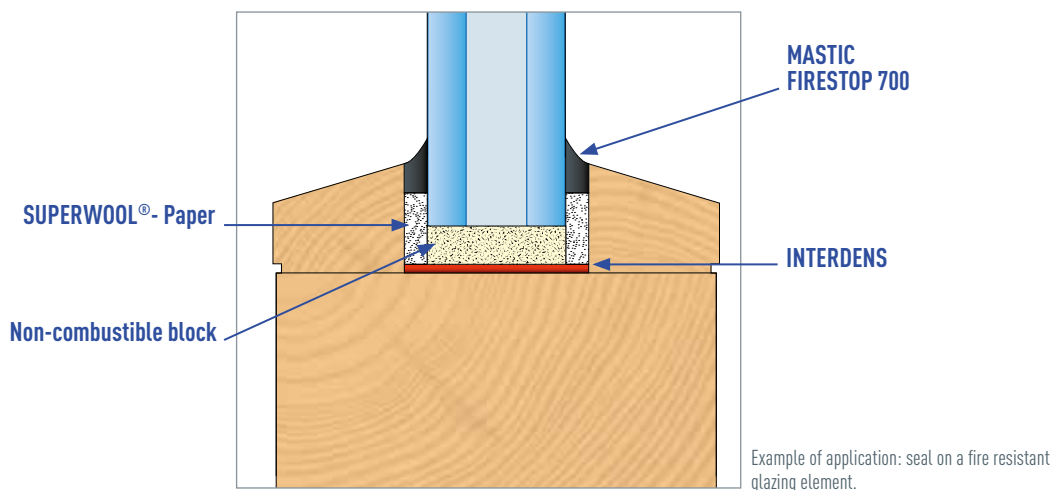
| Thermal conductivity- (W/m.K) (ASTM C-201) |                      |
|--|----------------------|
| Average temperature                        | Thermal conductivity |
| 200°C                                      | 0,05                 |
| 400°C                                      | 0,07                 |
| 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<br>(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.

### 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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Z.A.E Les Dix Muids - Rue Lavoisier - 59770 Marly - France  
Tél. +33(0)3 27 19 32 32 - Fax : +33(0)3 27 21 06 26  
Email : [info@odice.com](mailto:info@odice.com) - [www.odice.com](http://www.odice.com)