

Data sheet

Superwool® Plus MD Paper

ENGLISH

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Description

Superwool® Plus MD Paper offers the same benefits of the current Superwool® fibre family with improved handle ability and enhanced thermal properties. Superwool® Plus MD Paper is manufactured from pure raw materials using a new proprietary technology. In addition to enhanced thermal properties, large nuisance dust particles have been effectively eliminated making the product less irritating during use.

Superwool® Plus MD Paper is made of Superwool® Plus long fibres bonded with a low percentage of organic binder.

Superwool® Plus MD paper has excellent thermal insulation characteristics and exceptional handling properties.

Superwool® Plus MD Paper is very flexible and resistant to tearing, and particularly suited to all applications requiring further processing (laminated composites, die-cutting, rolling, folding).

The organic binder burns out cleanly on the first firing at approximately 300°C (572°F) with ignition starting at 180°C (356°F).

Superwool® Plus MD Paper is available in a black version and also a white version.

Type

Paper manufactured from high temperature insulation wool.

Classification temperature

1200°C (2192°F) EN 1094-1

The Thermal Ceramics business of Morgan Advanced Materials quotes all thermal conductivity data according to the ASTM C-201 method.

The maximum continuous use temperature depends on the application. Unaffected by most chemicals except strong alkalis, phosphoric acid and molybdenum. For further advise please contact your local Morgan Thermal Ceramics partner.

Typical applications

- Industrial and domestic appliance gasketing
- Glazing applications
- Passive Fire Protection applications
- Automotive heat shields

Benefits

- Good resistance to tearing
- High fibre index
- Flexible and resilient
- Low shot content
- Nominal thickness
- Smooth on both sides
- Resistant to thermal shock
- Very low thermal conductivity
- Easy to die-cut
- Not affected by the presence of 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



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Metric information

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	Superwool® Plus MD Paper	
Classification temperature, °C	1200	
Colour	Black / White	
Density, kg/m ³	230	
Thickness (measured @kpa)	± 10%	
Tensile strength, EN 1094-I, MPa	>0.65	
Loss on ignition, %	12	
Linear Shrinkage at 1000°C %	<2	
Thermal conductivity, ASTM C-201, W/m K		
Mean Temperature		
	@200°C	0.05
	@400°C	0.07
	@600°C	0.11
	@800°C	0.16
	@1000°C	0.23

Availability and Packaging

Superwool® Plus MD Paper is available in standard rolls of 1000mm and 500mm which are packed in cartons.

Special roll lengths and widths can also be supplied.

Also available with self adhesive backing or aluminium foil backed.

Thickness (mm)	Length (m)
2	20
3	15
4	10
5	10
6	10
8	10
10	10

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SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). **SUPERWOOL®** products may be covered by one or more of the following patents, or their foreign equivalents:

SUPERWOOL® PLUS and **SUPERWOOL® HT** products are covered by patent numbers:
US5714421 and US7470641, US7651965, US7875566, EP1544177 and EP1725503 respectively.

A list of foreign patent numbers is available upon request to Morgan Advanced Materials plc.

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