

Data sheet

Superwool® Clad

ENGLISH

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Description

Superwool® Plus clad

is made with needled blanket of spun Superwool® Plus fibre

Superwool® HT clad

is made with needled blanket of spun Superwool® HT fibre

Superwool® Plus & Superwool® HT have excellent handling characteristics, both wet and dry.

Superwool® Plus & Superwool® HT clad are moist sheets, packed in sealed polythene bags. Their flexibility and high tensile strength in wet make it easy to be moulded to follow a curved or angle profile.

After drying (60°C to 90°C), it provides a strong, rigid, lightweight insulation texture.

Superwool® Plus & Superwool® HT clad have a shelf life in a moist state of up to 6 months provided that the bags remain sealed and are maintained at temperatures within the range of 10°C to 50°C (50°F to 122°F)

Type

Moisture impregnated mouldable sheets made from high temperature insulation wool.

Classification temperature

Superwool® Plus clad - 1200°C (2192°F) (EN 1094-1))

Superwool® HT clad - 1300°C (2372°F) (EN 1094-1)

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.

For applications above 1000°C (1832°F), Morgan Thermal Ceramics recommends Superwool® HT fibre which has a classification temperature of 1300°C (2372°F).

Benefits

- Good resistance to tearing
- After drying, provides light weight but strong and abrasion resistant protection
- Resistant to thermal shock
- Low thermal conductivity when dried
- Low heat storage
- Can be used to make simple rigid shapes
- Exonerated from any carcinogenic classification under nota Q of directive 97/69EC



Data Sheet:
EU: 128/141
NA: n/a
GHS: n/a

Data sheet

Superwool® Clad

Metric information

	Superwool® Plus clad	Superwool® HT clad
Classification temperature, °C	1200	1300
Colour	white	white
Density, kg/m³	Wet	700 - 800
	Dry	300
Tensile strength, EN 1094-1, kPa	Wet	65
	Dry	>0.5
Modulus of rupture (BS 1902), MPa	Dry	>0.6
	Fired @ 1000°C	>0.6
Permanent linear shrinkage, EN 1094-1, % after 24 hours isothermal heating, %	@1200°C	<3
	@1300°C	<3
Thermal conductivity, ASTM C-201, W/m K	@400°C	0.08
	@600°C	0.12
	@800°C	0.18
	@1000°C	0.24
	@1200°C	-
		0.37

Availability and Packaging

Superwool® Plus Clad and Superwool® HT Clad are normally supplied in standard sheets 915mm x 610mm, rolled, sealed in plastic bags then packed in cardboard cartons.

*The thickness of the dried product will depend on the compression applied during shaping. Length 1200 mm upon request (subject to minimum order requirements).

Type	Thickness (mm)	Quantity per Carton
Boards 915 x 610mm	5	10
	10	8
	15	4
	20	3

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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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