Superwool® HT Clad

Datasheet Code EU: 11-4-05 E

Description

Superwool® HT Clad is made with needled blanketof spun fibre Superwool HT.

It is easy to handle before and after drying. Superwool® HT Clad is a moist sheet, packed in sealed polythene bags.

It can be moulded to follow a curved or angled profile.

After drying (60 °C to 90 °C), it is strong, rigid, yet lightweight. Its insulating properties are similar to Superwool HT VF.

Superwool® HT Clad has a shelf life, in the 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.

Type

Moisture impregnated mouldable sheets made from high temperature insulation wool.

Classification Temperature

1300 °C (EN1094-1)

The maximum continuous use temperature depends on the application. Please contact Morgan Thermal Ceramics for advice.

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 97/69 EC

SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). This product may be covered by one or more of the following patents, or their foreign equivalents:- SUPERWOOL® PLUS™ products are covered by patent numbers:- US5714421, US5994247, US6180546, US7259118, and EP0621858. SUPERWOOL® 607HT™ SUPERWOOL® HT™products are covered by patent numbers:- US5955389, US6180546, US7259118, US7470641, US7651965, US7875566, EP0710628, EP1544177, and EP1725503. A list of foreign patent numbers is available upon request to The Morgan Crucible Company plc.

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Main properties

Classification Temperature		°C	1300
Typical Properties			
Colour			white
Density	(wet)	kg/m^3	700-800
	(dry)	kg/m^3	300
Tensile Strength	(wet)	kPa	65
Modulus of rupture	(dry)	MPa	>0.5
	(1000 °C fired)	MPa	>0.6
High Temperature Performance			
Permanent linear shrinkage (EN 1094-1) after 24 hours isothermal heating at 1300 °C		%	<3

• Thermal conductivity (ASTM C-201) at mean temperature of:

400°C W/m.K	0.04
600°C W/m.K	0.07
800°C W/m.K	0.12
1000°C W/m.K	0.27
1200°C W/m.K	0.37

Availability Packaging
Superwool® HT is normally supplied in standard sheets 915 mm x 610 mm, rolled, sealed in plastic bags then packed in cardboard cartons.

Thickness* mm	Quantity per carton
5	10
10	8
15	4
25	3

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