

Superwool® Plus Clad



Datasheet Code EU: 11-5-05 E

© 2009 Morgan Thermal Ceramics, a business within the Morgan Ceramics Division of The Morgan Crucible Company plc



Type

Moisture impregnated mouldable sheets made from high temperature insulation wool.

Description

Superwool® Plus™ Clad is made with needled blanket of spun Superwool® Plus fibre. It has excellent handling characteristics, both wet and dry.

Superwool® Plus™ Clad is a moist sheet, packed in sealed polythene bags. Its 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 strong, rigid, light weight insulation texture.

Superwool® Plus™ Clad has 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.

Classification Temperature

1200 °C (EN 1094-1)

This temperature is quoted as the Maximum Continuous Use temperature. For applications above 1000°C, Morgan Thermal Ceramics recommends Superwool® 607HT® fibre which has a classification temperature of 1300°C.

For further information, contact your local Morgan Thermal Ceramics office.

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™ 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.

Superwool[®] Plus Clad



Main properties

Classification Temperature °C 1200

Properties Measured at Ambient Conditions (23°C/50% RH)

• Colour		white
• Density (wet)	kg/m ³	600-700
(dry)	kg/m ³	300
• Tensile strength (wet)	KPa	60

High Temperature Performance

• Permanent linear shrinkage (EN 1094-1) after 24 hours isothermal heating at 1200°C	%	<3
---	---	----

Availability and Packaging

Superwool[®] Plus[™] Clad is normally supplied in standard sheets 915mm x 610mm, rolled, sealed in plastic bags then packed in cardboard cartons.

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

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