

Superwool® Plus Blok



Datasheet Code EU: 11-1-12 E

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Type

Blok for back up insulation.

Description

Superwool® Plus Blok sheets are made from Superwool® Plus fibres, mineral fibres and a small amount of organic binder.

Due to the high fibre content, Superwool® Plus Blok sheets are strong, lightweight and thermal shock resistant.

All grades of Superwool® Plus Blok receive a water repellence treatment to prevent absorption of water or concrete binders.

The panels must be installed so that the side with the product name is in contact with the concrete. When tested on this side, Superwool® Plus Blok is classified as non hydrophilic (NF P 75-305).

Thicknesses over 50mm are obtained by bonding together two thinner sheets.

Maximum Continuous Use Temperature

Superwool Plus Blok - 800:	800°C
Superwool Plus Blok - 1000:	1000°C
Superwool Plus Blok - 1100:	1100°C

The maximum continuous use temperature depends on the application. For further information, contact your local Morgan Thermal Ceramics office.

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Features

- Water repellent
- Resistant to thermal shock
- Low thermal conductivity
- Precise geometry and close tolerances
- Homogeneous structure, easy for machining
- Non-brittle
- High fibre content
- Lightweight, low heat storage
- Easy to install
- 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 Blok



Main properties

	Superwool [®] Plus Blok 800 1000 °C	Superwool [®] Plus Blok 1000 1100 °C	Superwool [®] Plus Blok 1100 1100 °C
Classification Temperature (°C)	1000 °C	1100 °C	1100 °C

Properties Measured at Ambient Conditions (23°C/50% RH)*				
Colour		white/tan	white/tan	white/tan
Density	kg/m ³	320	320	320
Modulus of rupture	MPa	0.7	0.8	0.8
Compressive stress (10% reduction in thickness)	MPa	0.30	0.40	0.30
Water absorption (NF P75-302) after 96 hours (on side with product name)	kg/m ³	5	5	5

* typical values for thickness 50mm

High Temperature Performance

• Loss on ignition	%	5.5	5.5	4.5
• Permanent linear shrinkage (EN 1094-1) after 24 hours isothermal heating at classification temperature:	%	2.0	1.6	1.2
• Thermal conductivity (ASTM C-201) at mean temperature of:				

Thermal conductivity (W/m K):				
Mean Temperature				
200°C	0.05	0.06		0.05
300°C	0.05	0.06		0.06
400°C	0.06	0.07		0.07
500°C	0.07	0.09		0.08
600°C	0.08	0.10		0.09
700°C	0.10	0.11		0.11
800°C	0.12	0.13		0.12
900°C		0.16		0.14
1000°C				0.16

Availability and Packaging

Standard size: 1000mm x 600mm.

Thicknesses: 25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 80mm, 90mm and 100mm.
Thicknesses over 50mm are obtained by bonding together two thinner sheets.

Superwool[®] Plus Blok is packed on pallets (1225mm x 1020mm), which are protected with cardboard and shrink wrapped with recyclable plastic.

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.