

Superwool® 607® HT™ Blanket



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Description

Superwool® 607® HT™ Blanket is made of Superwool® 607® HT™ long fibres. It exhibits outstanding insulating properties at elevated temperatures. Superwool® 607® HT™ Blanket has an excellent thermal stability and retains its original soft fibrous structure up to maximum continuous use temperature.

Blanket contains neither binder nor lubricant and does not emit any fume or smell during the first firing.

It is flexible, easy to cut and shape and easy to install.

Type

Blanket made from high temperature insulation wool

Classification Temperature

1300°C (EN 1094-1)

Continuous Use Temperature

1150°C

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Morgan Thermal Ceramics distributor for advice.

Benefits

- Excellent thermal insulating performances
- Free of binder or lubricant
- Thermal stability
- Low heat storage
- Flexible and resilient
- Immune to thermal shock
- No reaction with alumina based bricks in application in the range of the typical use temperature
- 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® 607® HT™ Blanket



Main properties

Classification Temperature °C 1300

Typical Properties

• Colour		white
• Density	kg/m ³	64, 96, 128, 160
• Tensile strength (EN 1094-1)		
64kg/m ³	kPa	30
96kg/m ³	kPa	50
128kg/m ³	kPa	75
160kg/m ³	kPa	95

High Temperature Performance

- Permanent linear shrinkage (EN 1094-1) after 24 hours isothermal heating at 1300°C % <2
- Thermal conductivity (ASTM C-201) at mean temperature of:

Thermal Conductivity	96kg/m ³	128kg/m ³
200°C W/m.K	0.05	0.04
400°C W/m.K	0.10	0.08
600°C W/m.K	0.19	0.14
800°C W/m.K	0.32	0.23
1000°C W/m.K	0.48	0.34
1200°C W/m.K	0.69	0.48

Chemical Composition

SiO ₂	%	70-80
CaO + MgO	%	18-25
Others	%	<3

Availability and Packaging

Superwool® 607 HT™ Blankets are packed in cartons, 1260 x 940mm pallet + stretchable film.

Thick. mm	Density kg/m ³				Length mm	Width mm	m ² /carton
	64	96	128	160			
6		X	X	○	4 x 5500	610	13.42
10		X	X	X	18500	610	11.28
13		X	X	X	14640	610	8.93
19	○	X	X	X	9760	610	5.95
25	○	X	X	X	7320	610	4.46
38	○	X	X	○	4880	610	2.98
50	○	X	X	○	3660	610	2.23

Marks (○) and width 1220mm upon request (subject to minimum order requirements).

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.