

**DESCRIPTION**

Superwool™ 607™ Blanket is made of Superwool 607* long fibres and available in a wide range of thicknesses and densities. They exhibit outstanding insulating properties at elevated temperatures. Superwool 607 Blanket has an excellent thermal stability and retains its original soft fibrous structure up to classification temperature.

It is needled from both sides and possesses high strength, before and after heating. Superwool 607 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.

It is ideally suited to industrial applications at temperatures up to 1100°C.

TYPE

Blanket made from high temperature insulation wool.

CLASSIFICATION TEMPERATURE

1100 °C

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

BENEFITS

- Excellent thermal insulating performances
- Free of binder or lubricant
- Thermal stability
- Low heat storage
- Good resistance to tearing
- Flexible and resilient
- Immune to thermal shock
- Good sound absorption
- Exonerated from any carcinogenic classification under nota Q of directive 97/69 EC
- Exonerated from any use restriction under annexe V number 7.1 of the German hazardous substances regulation

*Superwool 607 is a high temperature insulation wool which has been developed to have a low biopersistence (information on request).

MAIN PROPERTIES

Classification temperature °C 1100

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

• Colour		white
• Density	kg/m ³	50 up to 160
• Tensile strength (ENV 1094-7)		
64kg/m ³	kPa	35
96kg/m ³	kPa	65
128kg/m ³	kPa	90
160kg/m ³	kPa	110

High Temperature Performance

• Permanent linear shrinkage (ENV 1094-7) after 24 hours isothermal heating at 1000°C % < 1.5

• Thermal conductivity (ENV 1094-7) at mean temperature of:

		64kg/m ³	96kg/m ³	128kg/m ³	160kg/m ³
100°C	W/m.K	-	-	-	-
200°C	W/m.K	0.07	0.06	0.06	0.06
300°C	W/m.K	0.09	0.08	0.08	0.07
400°C	W/m.K	0.12	0.11	0.10	0.09
500°C	W/m.K	0.17	0.14	0.13	0.12
600°C	W/m.K	0.22	0.17	0.16	0.15

• Specific heat capacity at 540°C kJ/kg.K 1.05

Chemical Composition

SiO ₂	%	60-70
Al ₂ O ₃	%	< 0.3
CaO + MgO	%	25-40

Availability and Packaging

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

Thick. mm	Density kg/m ³					Length mm	Width mm	m ² / carton
	50	64	96	128	160			
6			X	X	○	5500 x 4	610	13.42
10			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	X	7320	610	4.46
38	○	X	X	X	○	4880	610	2.98
50	○	○	X	X	○	3660	610	2.23
63			○	○		2300 x 3	610	4.21

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

Your local contact:

Distributed by:

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.

Thermal Ceramics Marketing Offices

Thermal Ceramics Americas

2102 Old Savannah Road
Augusta, Georgia 30903
Tel: +1 706 796 4200
Fax: +1 706 796 4398

E-mail: tceramics@thermalceramics.com

Thermal Ceramics Asia Pacific

28 Jalan Kilang Barat
Kewalram House, Singapore 159362
Tel: +65 6273 1351
Fax: +65 6273 0165

E-mail: thermalceramics@tcasia.com.sg

Thermal Ceramics Europe

Tebay Road, Bromborough
Wirral CH62 3PH UK
Tel: +44 (0) 151 334 4030
Fax: +44 (0) 151 334 1684

E-mail: marketing@thermalceramics.co.uk

Website: www.thermalceramics.com