

Superwool® Plus Blanket-Superwool® HT Blanket

Description

Superwool® Plus and Superwool® HT Blankets are made of long, low bio-persistent fibres. They retain their original soft fibrous structure up to their maximum continuous use temperature, providing excellent insulation. Superwool® Blanket contains no binder or lubricant and possesses high strength before and after firing.

A wide range of options in density and thickness ensures Superwool® to be efficiently used in a wide range of applications.

Classification Temperature

Superwool® Plus Blanket: 1200 °C

Superwool® HT Blanket : 1300 °C

The maximum use temperature depends on the application. Refer to our company for advice.



Features

- Shows exceptional thermal insulating performance.
- Unaffected by most chemicals except strong alkalis, phosphoric acid and molybdenum.
- It retains its properties at high temperatures.
- It is possible to go beyond the service temperature in some applications.
- Low heat storage capacity.
- They have good acoustic properties.
- It is not affected by thermal shock at high temperatures and it is never damaged by abrupt heating and cooling.
- It maintains its dimensional properties at high temperatures.
- It does not lose its high resistance to any destruction and external effects that may occur during installation.
- Furthermore, Superwool® fibre meets the requirements specified under Nota Q of European Regulation 1272/2008. All Superwool® fibre products are therefore exonerated from labelling requirements in Europe.

Main Properties	Superwool® Plus	Superwool® HT
Colour	White	
Classification Temperature, °C	1200	1300
Density, kg/m ³	64, 80, 96, 128, 160	64, 96, 128, 160
Chemical Composition, %		
SiO ₂	62-68	70-80
CaO+MgO	-	18-25
CaO	26-32	-
MgO	3-7	-
Other	<1	<3
Tensile Strength, kPA, (EN-1094-1), for 128 kg/m ³	75	75
Permanent Shrinkage at the Specified Temperatures, % (EN-1094-1)		
1000 °C	-	-
1200 °C	1.0	-
1260 °C	-	<2.0
Thermal Conductivity, W/m.K (for 128 kg/m ³)		
200 °C	0.05	0.04
400 °C	0.08	0.08
600 °C	0.12	0.14
800 °C	0.18	0.23
1000 °C	0.25	0.34
1200 °C	-	0.48

The values given herein are typical average values obtained in accordance with standard test methods and subject to normal manufacturing variations. They are supplied as technical data and may change without notice. Contact our company to obtain detailed information.