

Superwool® Papers

“Superwool® Plus Paper - Superwool® HT Paper”

Description

Superwool® Plus Paper and Superwool® HT Paper are manufactured by low bio-persistent fibres and organic binders. Thanks to their special structure, they maintain dimensional properties at high temperatures. The low amount of organic binder content enhances the resistance of the materials prior to use and ensure them to be cut in the customized shapes as gasket. These binders burn out cleanly on the first firing at approximately 300 °C.

The materials can conveniently be used in the composite products and in the applications such as die-cutting and rolling depending on the application temperature.



Classification Temperature

Superwool® Plus Paper : 1200 °C

Superwool® HT Paper : 1300 °C

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

Features

- Excellent thermal insulation.
- Smooth on both sides.
- They maintain their properties at high temperatures.
- It is possible to go beyond the use temperature in some applications.
- Low heat storage capacity.
- Easy to cut and shape as they are in paper form.
- They are quite resistant to tearing because of the small amount of undesired shot content in their structure and their high flexibility.
- Non-wetting to molten aluminium.
- They operate in compliance with and are not affected by the bricks used in the refractory applications.
- They can be used as filling material during the installation.
- Exonerated from any carcinogenic classification under nota Q of directive 97/69 EC.

Main Properties (23°C / 50% Humidity)	Superwool® Plus Paper	Superwool® HT Paper
Colour	White	
Classification Temperature, °C	1200	1300
Density, kg/m ³	190 - 210	220
Chemical Composition, %		
SiO ₂	62 - 68	70 - 80
CaO+MgO	-	18 - 25
CaO	26 - 32	-
MgO	3 - 7	-
Other	<3	<3
Tensile Strength, MPa	>0.65	>0.45
Linear Shrinkage, %	<2 (at 1000 °C)	<2 (at 1300 °C)
Thermal Conductivity, W/m.K		
200 °C	0.05	0.04
400 °C	0.07	0.07
600 °C	0.11	0.10
800 °C	0.16	0.14
1000 °C	0.23	0.19
1200 °C	-	0.25
Loss on Ignition, %	8	

Dimensions and Packaging

The products are in width of 500 mm, 610 mm and 1000 mm, in various thickness and length and are offered in cartons.

Thickness (mm)	1	2	3	4	5	6	7	8	9	10
Length (m)	40	20	15	10	10	10	10	10	10	10

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.