

# Superwool® HT Felt

**Material Type:** Soluble fibre flexible boards.

## Description

Superwool® HT Felt is a flexible type of board produced by the method of hot pressing through use of Superwool® HT fibre. It is a long fibre and low bio-persistent product. Superwool® HT fibres bonded with an organic binder which begins to burn out at 180°C, add resistance to the material prior to use and allow the product to be cut in the desired shapes to close tolerances.

Made from chemically stable fibres, lightweight and very insulating, Superwool® HT Felt it is a multi-purpose flexible board offered in five different options of densities and thickness.

**Classification Temperature:** 1300 °C

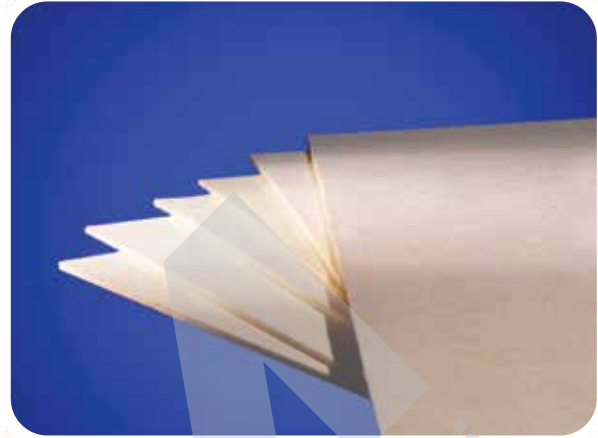
The maximum use temperature depends on the application. Refer to our company for advice.

## Features

- It is produced in a wide range of density. (64 kg/m<sup>3</sup> - 288 kg/m<sup>3</sup>)
- Shows excellent heat insulation property.
- It maintains its properties at high temperatures.
- It is possible to go beyond the use temperature in some applications.
- Low heat storage capacity.
- No reaction with alumina based bricks in the application in the range of the typical use temperature.
- Suitable for different methods of cutting (saw, water jet and stamping, etc.)
- It may be flexible or semi-rigid depending on the density selected.
- Chemically stable.
- High sound absorption properties.
- Exonerated from any carcinogenic classification under nota Q of directive 97/69EC.

## Applications

The material may also be used as sealing material at high temperature. As it is easy to shape, it also acts as an ideal insulating material for domestic appliances. It may be used in the industrial furnaces, boilers, cover and firing chambers by bringing it to the desired shape.



### Main Properties (23 °C / 50% Humidity)

Colour	Yellow				
Classification Temperature, °C	1300				
Density, kg/m <sup>3</sup>	64 - 288				
Chemical Composition, %					
SiO <sub>2</sub>	70 - 80				
CaO+MgO	18 - 25				
Other	<3				
Thermal Conductivity, W/m.K	64 kg/m <sup>3</sup>	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>	192 kg/m <sup>3</sup>	288 kg/m <sup>3</sup>
200 °C	0.07	0.07	0.07	0.06	0.05
400 °C	0.16	0.15	0.12	0.09	0.08
600 °C	0.28	0.25	0.20	0.14	0.14
800 °C	0.45	0.38	0.32	0.21	0.16
1000 °C	0.55	0.45	0.38	0.25	0.19
Specific Heat Capacity at 1090 °C, kJ/kg.K	1.22				
Permanent Linear Shrinkage at 1300°C, %	<2				

**Dimensions and Packaging:** Superwool® HT Felt is in size of 1220 x 1070 mm and offered in cartons on pallets.

Thickness (mm)	Density (kg/m <sup>3</sup> )					
	64	96	128	160	192	288
6	x	x	x	x	x	x
10	x	x	x	x	x	x
13	x	x	x	x	x	x
19	x	x	x	x	x	x
25	o	x	x	x	x	

Marks (o) upon request (subject to minimum order requirements).

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.