

# Superwool® Boards

## “Superwool® Plus Board - Superwool® HT Board”

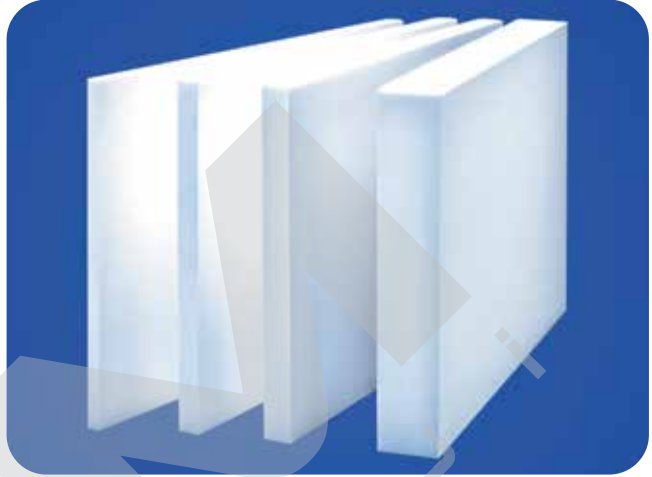
### Description

Superwool® Plus Board and Superwool® HT Boards are rigid panels in standard thickness made from Superwool® Plus and Superwool® HT fibres, refractory fillers, organic and inorganic binders. Thanks to their special structure, they can be used in direct contact with flame.

### Classification Temperature

Superwool® Plus Board 75 : 900 °C  
 Superwool® Plus H Board : 900 °C  
 Superwool® Plus Board 85 : 1000 °C  
 Superwool® Plus Board LTI : 1100 °C  
 Superwool® Plus Board INO : 1100 °C  
 Superwool® HT Board 85 : 1300 °C

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



### Features

- Excellent thermal insulation.
- Precise thickness and homogenous structure.
- Thin boards are easily die-cut and all boards can be cut with a hacksaw blade allowing precise shapes to be made easy to apply.
- Good thermal shock resistance allows use in applications where large variations in temperature occur.
- Low heat storage capacity.
- Can be used direct contact with flame.
- They maintain their dimensional stability at high temperatures.
- They may get into contact with the liquid aluminium.
- They operate in compliance with and no reaction by bricks used in the refractory applications.
- Furthermore, exonerated from any carcinogenic classification under nota Q of directive 97/69 EC.

### Grades Available

Superwool® Plus Board 75 : Suitable for applications up to 900 °C.  
 Superwool® Plus H Board : Recommended when a high strength material is required.  
 Superwool® Plus Board 85 : Ideal for applications up to 1000 °C.  
 Superwool® Plus Board LTI : Recommended for applications where thin and rigid panels are required.  
 Superwool® Plus Board INO: Recommended for all applications where minimum smoke and fume emission is desirable.  
 Superwool® HT Board : Recommended for applications up to 1300 °C.

### Applications

- For industrial furnace insulation.
- Ceramic industry.
- Glass industry.
- Fire protection.
- For applications of insulation of the heat passing channel.
- Domestic appliances.
- In the kiln cars and furnace insulation channels.
- Crucible, boiler and burner combustion cells.
- General thermal barriers against the heat source.

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## “Superwool® Plus Board - Superwool® HT Board”

Main Properties (23 °C / 50% Humidity)	Superwool® Plus Board 75	Superwool® Plus H Board	Superwool® Plus Board 85	Superwool® Plus Board LTI	Superwool® Plus Board INO	Superwool® HT Board
Colour	White / Skin Hue					
Classification Temperature, °C	900	900	1000	1100	1100	1300
Density, kg/m <sup>3</sup>	320	520	320	350	500	350
Modulus of Rupture, MPa	0,8	3,5	0,8	1,5	1,2	1,2
Behaviour at High Temperature						
Loss on Ignition, % (after 2h at 800 °C)	5	10	5	5	5	<5,0
Compressive Strength, Mpa (for reduction in thickness by 10%)	0,4	1,1	0,3	0,3	0,3	0,3
Thermal Conductivity, W/m.K						
200 °C	-	-	-	-	-	0.05
300 °C	0.09	0.12	0.07	0.08	0.09	-
400 °C	0.10	0.13	0.08	0.09	0.11	0.08
600 °C	0.12	0.15	0.11	0.12	0.13	0.11
800 °C	-	-	0.12	0.15	0.15	0.13
1000 °C	-	-	-	-	-	0.20
1200 °C	-	-	-	-	-	0.26

### Packaging

The products are offered in carton and/or on pallet coated with stretch film.



Standard Dimensions (mm)	Superwool® Plus Board 75	Superwool® Plus H Board	Superwool® Plus Board 85	Superwool® Plus Board LTI	Superwool® Plus Board INO	Superwool® HT Board
1200 x 1000 x 6				X		
1200 x 1000 x 7.5				X		
1200 x 1000 x 10		X		X	X	X
1200 x 1000 x 13				X		X
1200 x 1000 x 15		X		X		X
1200 x 1000 x 20		X	X		X	X
1200 x 1000 x 25	X	X	X			X
1200 x 1000 x 40	X		X			X
1200 x 1000 x 50	X		X			X

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.