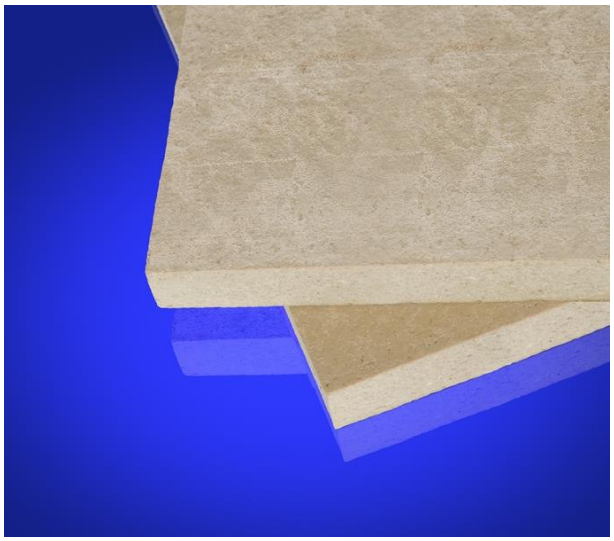
Superwool® HT Board



Classification Temperature

Superwool® HT™ Board 1300°C (EN 1094-1)
Superwool® HT™ C Board 1150°C (EN 1094-1)

The maximum continuous use temperature depends on the application. Please contact Morgan Thermal Ceramics for advice.

Description

Superwool® HT™ Boards are rigid panels made from a mixture of Superwool® HT™ fibres, refractory fillers, organic and inorganic binders.

Board Type

Rigid panels manufactured from high temperature insulation wool.

Standard Grades

Superwool® HT™ Board

Standard formula based on Superwool HT™ fibre.

Superwool® HT™ C Board

Formula specially designed for application up to 1000°C requiring cycling resistance and high mechanical performances.

Features

- Boards can be cut with a hacksaw blade allowing precise shapes to be made
- Good thermal shock resistance allows use in applications where large variations in temperature occur
- Low heat storage capacity
- Can be used in direct contact with flame
- No reaction with alumina based bricks in application in the range of the typical use temperature
- Very low thermal conductivity
- Exonerated from any carcinogenic classification under nota Q of directive 97/69 EC

Datasheet Code EU: 11-4-15 E

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Superwool® HT Board

Classification Temperature	Superwool® HT™ Board	Superwool® HT™ C Board
°C	1300	1150

Properties Measured at Ambient Conditions (23°C/50% RH)*	Superwool® HT™ Board	Superwool® HT™ C Board
Colour	White/tan	White/tan
Density (kg/m3)	350	360
Modulus of rupture (MPa)	1.2	1.4
Compressive stress at 10% deformation (MPa)	0.3	0.3

*Typical values for 25mm thickness

High Temperature Performance	Superwool® HT™ Board	Superwool® HT™ C Board
Loss on ignition after 2 hours heating at 800°C	<5.0	<7.0
Permanent linear shrinkage (ASTM C-201) after 24 hours isothermal heating at:		
1000°C		<1.5
1200°C	<1.5	
Permanent thickness shrinkage (ASTM C-201) after 24 hours isothermal heating at:		
1000°C		<3.0
1200°C	<3.0	

Thermal conductivity (ASTM C-201) at mean temperature of:	Superwool® HT™ Board	Superwool® HT™ C Board
200°C	0.05 (W/m.K)	0.06 (W/m.K)
400°C	0.08 (W/m.K)	0.09 (W/m.K)
600°C	0.11 (W/m.K)	0.12 (W/m.K)
800°C	0.15 (W/m.K)	0.15 (W/m.K)
1000°C	0.20 (W/m.K)	
1200°C	0.26 (W/m.K)	

All quoted figures are typical values for the product, and should not be taken as representing a Product Specification

Availability and Packaging

Superwool® HT Board and Superwool® HT C Board are available in panels 1200 x 1000mm.
Superwool® HT Board standard thickness: 10, 13, 20, 25, 40 & 50mm.
Superwool® HT C Board standard thickness: 10, 13, 20, 25, 40 & 50mm.
Variations on dimensions and thickness upon request subject to quantity.
Superwool® HT Board products are packed in cartons or on pallets that are shrink-wrapped with recyclable plastic.