

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

SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). This product may be covered by one or more of the following patents, or their foreign equivalents:- SUPERWOOL® PLUS™ products are covered by patent numbers:- US5714421, US5994247, US6180546, US7259118, and EP0621858. SUPERWOOL® 607HT™ products are covered by patent numbers:- US5955389, US6180546, US7259118, US7470641, US7651965, US7875566, EP0710628, EP1544177, and EP1725503. A list of foreign patent numbers is available upon request to The Morgan Crucible Company plc.

Datasheet Code EU: 11-4-15 E

www.morganthermalceramics.com

Europe: +44 (0) 151 334 4030 / marketing.tc@morganplc.com

North America: +1 (0) 706 796 4200 / northamerica.tc@morganplc.com

South America: +54 (11) 4373 4439 / marketing.tc@morganplc.com

Asia: +65 (0) 6595 0000 / asia.mc@morganplc.com

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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.

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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Europe: +44 (0) 151 334 4030 / marketing.tc@morganplc.com

North America: +1 (0) 706 796 4200 / northamerica.tc@morganplc.com

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