

Ceraboard

TYPE

Rigid panel based on refractory fibres.

CLASSIFICATION TEMPERATURE & GRADES AVAILABLE

Ceraboard 100 : 1260°C

Ceraboard 115 : 1400°C

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Morgan Thermal Ceramics distributor for advice.

THICKNESS TOLERANCES

- Less than 10mm: +/- 0.5mm (except for Ceraboard 100: +/- 1mm)
- From 10mm to 20mm: +/- 1mm
- From 25mm to 50mm: +/- 2mm
- More than 50mm: +/- 4mm

Description

Ceraboard is a refractory fibre board supplied in panels of standard thicknesses made from a slurry of refractory fibres and binders which have a low organic content.

The combination of different refractory fibres, inorganic and organic binders in different proportions allows types of boards to be made suitable for different use temperatures.

In some types of heating equipment the emission of fumes, which can occur when binders burn out of the board, can be easily eliminated.

FEATURES

- High temperature stability
- Low thermal conductivity
- Low heat storage
- Rigidity and high cohesive strength allow machining and cutting
- Resistant to thermal shock
- Good erosion resistance
- Can be used in direct contact with flame
- Easy application

APPLICATIONS

These versatile boards can be used where a rigid, self-supporting and insulating product is required which also has good resistance to physical damage.

- Ceramic industry (kiln linings & kiln car insulation)
- Glass industry
- Ducts insulation
- General thermal barriers
- High temperature insulation



Ceraboard

Classification temperature	100	115
°C	1260	1400
Properties Measured at Ambient Conditions (23°C/50 % RH)		
Colour	White/ tan	White/ tan
Density Kg/m ³	310**	310
Modulus of rupture MPa	1.0**	0.9
Compressive stress at 10% relative deformation MPa	0.35	0.3
High Temperature Performance*		
Loss of ignition after 2 hours heating at 800°C %	5.5	3.5
Permanent linear shrinkage (ASTM C-356) after 24 hours isothermal heating at classification temperature: %	3.0	3.7
Thermal conductivity (ATM-201) at mean temperature of		
300°C W/m.K	0.07	0.07
400°C W/m.K	0.08	0.08
600°C W/m.K	0.11	0.11
800°C W/m.K	0.15	0.15
1000°C W/m.K	0.20	0.20

* Values for thickness 50mm. ** Values 330 and 1.5 for thicknesses below 20mm.

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Availability and Packaging

Standard Dimensions mm	Ceraboard 100		Ceraboard 115	
	Board per		Board per	
	carton	pallet	carton	pallet
1200 x 1000 x 6	20	160		
1200 x 1000 x 7.5	16	120		
1200 x 1000 x 10	12	90		
1200 x 1000 x 13	10	72		
1200 x 1000 x 15	8	60		
1200 x 1000 x 20	6	48		
1200 x 1000 x 25	5	36	5	36
1200 x 1000 x 40	3	24	3	24
1200 x 1000 x 50	2	18	2	18

Ceraboard is packed in cartons or on pallets which 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.