



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.

Type

Rigid panel based on refractory ceramic fibres.

Maximum Continuous Use Temperature*

2300°F (1260°C)

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

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

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

- Ceramic industry (klin linings & klin car insulation)
- Glass industry
- High temperature expansion joints
- High temperature insulation
- Tundish covers
- Back-up in steel ladle and torpedo caps
- Back-up to dense refractories
- High temperature gaskets and seals
- Combustion chamber construction
- Flue and chimney linings

Physical Properties

Color:	White/Tan
Nominal density, pcf (kg/m^3)	18-20 (288-320)
Maximum temperature rating	2300 (1260)
Continuous use limit, °F(°C)	2150 (1177)
Melting Point, °F(°C)	3200 (1760)
Modulus of rupture, Mpa (<i>psi</i>)	1.00 (146)
Compressive strength at 10% relative deformation, psi (<i>Mpa</i>)	40-50 (0.28 - 0.35)
Loss on ignition after 2 hours at 800°C	4-6%
Permanent linear shrinkage 24hrs @ 2200°F(1204°C)	3.0%

Chemical Analysis, %

Silica, SiO ₂	65
Alumina, Al ₂ O ₃	30
Calcium Oxide, CaO	<1
Magnesium Oxide, MgO	<1
Alkalies	<2
Ferric Oxide, FeO	<1
Titanium Oxide, TiO	<1

Thermal Conductivity, BTU•in /hr•ft²•°F (W/m•k)

@600°F (300°C)	0.48 (0.07)
@800°F (400°C)	0.56 (0.08)
@1100°F (600°C)	0.76 (0.11)
@1500°F (800°C)	1.04 (0.15)
@1800°F (1000°C)	1.39 (0.20)

Packaging and Availability*

Standard dimensions, in. (mm)	Thickness, in (mm)	Boards/Carton	Sq.ft/Carton (Sq.m)	Boards/Pallet	Sq.ft/Pallet (Sq.m)
36 x 24 (914 x 610)	½ (12.5)	12	72 (6.68)	144	864 (80)
	1 (25)	6	36 (3.34)	72	432 (40)
	2 (50)	3	18 (1.67)	36	216 (20)
48 x 36 (1220 x 914)	½ (12.5)	12	144 (13.37)	72	864 (80)
	1 (25)	6	72 (6.68)	36	432 (40)
	2 (50)	3	36 (3.34)	18	216 (20)

* Other sizes will be available subject to ordering in minimum required pallet quantities.

The values given herein are typical average 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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