



Ceraboard P has tighter thickness tolerances and particularly useful in applications requiring very low variability. It is made from a slurry of refractory fibers and binders which have a low organic content.

Board Tolerances

Average thickness	Tolerance
0.50"	+/- 0.05"
1.00"	+/- 0.10"
2.00"	+/- 0.10"

Type

Rigid panel based on refractory ceramic fibers.

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

- Excellent thickness control and low variability
- High temperature stability
- Low thermal conductivity
- Low heat storage
- Rigidity and high strength allow machining and cutting
- Resistant to thermal shock
- Good erosion resistance
- Can be used in direct contact with flame
- Easy application
- Excellent compressive and flexural strengths, before and after firing
- Ease of fabrication

Applications

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

- Ceramic industry (kiln linings & kiln car insulation)
- Glass industry
- Ducts insulation
- High temperature expansion joints
- High temperature insulation
- Refractory backup insulation
- Combustion chamber construction
- Parting media in steel mills, metal working and heat treating
- Flue and chimney linings
- High temperature gaskets and seals
- Tundish covers
- Steel ladle and Torpedo caps

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, psi (Mpa)	1.00 (146)
Compressive strength at 10% relative deformation, psi (Mpa)	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*

<u>Standard dimensions, in. (mm)</u>	<u>Thickness, in (mm)</u>	<u>Boards/Carton</u>	<u>Sq.ft/Carton (Sq.m)</u>	<u>Boards/Pallet</u>	<u>Sq.ft/Pallet (Sq.m)</u>
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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