
1800 Board

1800 CERAMIC FIBRE Board are made from refractory ceramic fiber and high purity alumina power, attending inorganic and suitable organic binders. The mixture is vacuum processed into boards that keep good mechanical strength after heating.

Characteristic

- Contain pure Alumina fibers and high purity alumina power
- Can withstand temperature up to 3300° F
- Fibers are bonded by binder
- Asbestos free
- Can withstand gas flow velocity of 30 m/sec

Application

- Furnace with high temperature and high gas flow velocity

Classification temperature

1800°C (3300° F)

		Specification	Average
Bulk density	kg / m ³	≥ 350,400	350,400 (±8%)
Liner shrinkage 1700° C x 24 hrs	%	≤ 2.5	-0.2 -- +2.0
Thermal conductivity Kcal/mh° C (W/mK)	ASTM C201		
350kg/m³	mean 800°C	≤ 0.22	0.18
	mean 1000°C	≤ 0.28	0.25
Chemical composition %	Al ₂ O ₃	≥ 80.0	86.0
	Al ₂ O ₃ + SiO ₂	≥ 98	99.0
Loss on ignition	%	≤ 1	0.3
Modulus of rupture	kgf / cm ² (MPa)	≥ 5	9
Available size	1000 x 600 x 20 to 70 mm	1200×1000×20to50mm	
Dimensional tolerance			
Length	1000 mm	+ 3 mm	- 2 mm
Width	600 mm	+ 3 mm	- 2 mm
Thickness	20 mm	+ 2 mm	- 2 mm

Data are average results of standard tests which are subject to variation and should not be used as specification.