1600 Board

1600 CERAMIC FIBRE Board are made from refractory ceramic fiber, attending inorganic and suitable organic binders. The mixture is vacuum processed into boards that keep good mechanical strengthen after heating.

Characteristic

- Contain pure Alumina fibers
- Can withstand temperature up to 3000° 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 1600°C (3000° F)

		Specification	**Average**
Bulk density	kg / m^3	≧ 300	350
Liner shrinkage 1400° C x 8 hrs	%	≦ 2	1.2
Thermal conductivity Kcal/mh° C (W/mK) 280kg/m^3	ASTM C201		
	mean 600°C	≦ 0.16 (0.19)	0.10 (0.12)
	mean 800°C	≦ 0.23 (0.27)	0.16(0.19)
	mean 1000°C	≦ 0.31 (0.36)	0.23 (0.27)
Chemical composition %	Al_2O_3	≧ 70	73.0
	$Al_2O_3 + SiO_2$	≧ 98	99.0
Loss on ignition	%	≦ 8	5
Modulus of rupture	kgf / cm^2 (MPa)	≧ 1 (0.10)	2 (0.40)
Available size	1000 x 600 x 5 to 50 mm	1200 × 1000 × 5to50mm	
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.