Technical Data Sheet

1425 Board

1425 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

- Can withstand temperature up to 2600^{o} F
- Fibers are bonded by binder
- Asbestos free
- Can withstand gas flow velocity of 30 m/sec
- Contain some pure Alumina fibers

Application

- Furnace with high temperature and high gas flow velocity

Classification temperature 1425^{o}C (2600^{o} F)

		Specification	Average
Bulk density	kg / m^3	≧ 160	300
Liner shrinkage 1200^{o} C x 8 hrs	%	≦ 2	1.6
Thermal conductivity Kcal/mh^{o} C (W/mK) 280kg/m^3	ASTM C201		
	mean 600^{o}C	≦ 0.15 (0.17)	0.08(0.09)
	mean 800^{o}C	≦ 0.21 (0.24)	0.12 (0.14)
	mean 1000^{o}C	≦ 0.29 (0.34)	0.16 (0.19)
Chemical composition %	Al_2O_3	≧ 49	52.0
	$Al_2O_3 + SiO_2$	≧ 98	99.0
Loss on ignition	%	≦ 8	6
Modulus of rupture	kgf / cm^2 (MPa)	≧ 3 (0.29)	5 (0.5)
Available size	1000 x 600 x 5 to50mm	1200×1000×5to50mm	

Dimensional tolerance

Length	900 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.