



Ceramic Fiber Board & Shapes

Board: Nutec Fibratec* ceramic fiber board is a lightweight refractory material processed with alumina silica fibers for applications at temperatures up to 1650°C (3000°F).

Nutec Fibratec* board is a vacuum formed product that resists higher gas velocities than ceramic fiber blanket. It is ideal for furnace, boiler duct and stack lining due to its low thermal conductivity and low heat storage allowing shorter cycle times and quicker access for maintenance.

Shapes: Nutec Fibratec* ceramic fiber special shapes are available in a wide variety of shape configurations.

Technical Specifications

	LD	MD	HD	LD	LD
	2300	2300	2300	2600	2800
Maximum use limit					
°C	1260	1260	1260	1426	1538
°F	2300	2300	2300	2600	2800
Continuous use limit					
°C	1149	1149	1149	1316	1426
°F	2100	2100	2100	2400	2600
Melting Point					
°C	1732	1732	1732	1780	1850
°F	3150	3150	3150	3236	3362
Density Kg/m ³	288	368	448	288	288
(lbs./ft ³)	18	23	28	18	18
Thermal Shrinkage (%)	2-3	1-2	1-2	1-2	1-2
24 hours @2200 °F					
Chemical Analysis (%)	39-41	45-47	43-45	48-50	63-65
AL2O3	52-54	44-46	47-49	45-47	32-34
SiO2	2-3	2-3	2-3	1-2	1-2
Others					
Thermal Conductivity W/mK					
(Btu in/hr ft ² °F)					
	LD	MD	HD	LD	LD
316°C (600 °F)	0.07(0.5)	0.08(0.6)	0.13(0.9)	0.07(0.5)	0.07(0.5)
538°C (1000 °F)	0.08(0.6)	0.10(0.7)	0.14(1.0)	0.08(0.6)	0.08(0.6)
760°C (1400 °F)	0.12(0.8)	0.13(0.9)	0.17(1.2)	0.12(0.8)	0.12(0.8)
1094°C (2000 °F)	0.17(1.2)	0.17(1.2)	0.20(1.4)	0.17(1.2)	0.17(1.2)

Board Dimensions

Standard	European
1/2" x 24"x 36"	Thickness: 10, 25, 38, 50mm
1" x 24" x 36"	Width: 610 & 1000mm
1-1/2" x 24" x 36"	Length: 1000 & 1220mm
2" x 24" x 36"	

Also available in 1220 mm (48")long

Features

- Low thermal conductivity, saves fuel.
- Very low heat storage, faster heat and cool-down reducing cycle times.
- Light weight-replaces heavy back-up insulations, less steel required.
- Excellent thermal shock resistance.
- Resistant to hot gas erosion.
- Resists most chemical attacks.
- Easy to cut, handle and install.
- Low sound transmission.
- Resists penetration by molten aluminum and other non ferrous metals.
- Contains no asbestos.

Typical Applications

- Refractory lining for industrial furnaces in walls, roofs, doors, stacks, etc.
- Combustion chamber liners, boilers and heaters.
- Back-up insulation for brick and monolithic refractories.
- Transfer of molten aluminum and other non ferrous metals.
- Expansion joint boards.
- Barrier against flame or heat.
- Hot face layer for high velocity or abrasive furnace atmosphere.

High Temperature Board

	LD-3000	MD-3000
Maximum use limit		
°C	1650	1650
°F	3000	3000
Continuous use limit		
°C	1540	1540
°F	2800	2800
Melting Point		
°C	1815	1815
°F	3300	3300
Density		
lbs./ft.3	14-18	20-24
kg/m3	224-288	320-384
Thermal Shrinkage (%)		
24hrs @1540 °C(2800°F)	4	4