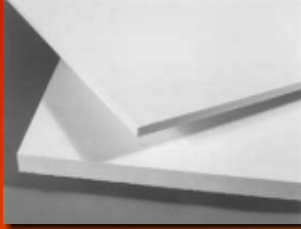




## Ceramic Fiber Board



### Properties

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

NUTEC Fibrattec\* 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.

### Features

- Low thermal conductivity, saves fuel.
  - Very low heat storage, faster heat and cool-down reducing cycle times.
  - Lightweight-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 abrasive furnace atmosphere.

Technical Specifications	LD-2300	LD-2600	LD-2800	LD-3000	MD-2300	MD-2600	MD-3000
<b>Use Temperature</b>							
Maximum Use °C	1260	1425	1538	1650	1260	1425	1650
(°F)	(2300)	(2600)	(2800)	(3000)	(2300)	(2600)	3000
Continuous Use °C	1149	1316	1425	1540	1149	1316	1540
(°F)	(2100)	(2400)	(2600)	(2800)	(2100)	(2400)	(2800)
Melting Point °C	1732	1780	1850	1815	1732	1780	1815
(°F)	(3150)	(3236)	(3362)	(3300)	(3150)	(3236)	(3300)
<b>Density</b>							
lbs./ft <sup>3</sup>	16-20	16-20	16-20	16-20	21-25	21-25	21-25
(Kg/m <sup>3</sup> )	(256-320)	(256-320)	(256-320)	(256-320)	(336-400)	(336-400)	(336-400)
<b>Thermal Shrinkage (%) 24 Hrs @1200°C (2200°F)</b>							
	2-3	2-3	1-2	@1540°C (2800°F) <4	1-2	1-2	@1540°C (2800°F) <4
<b>Thermal Conductivity W/m<sup>2</sup>K(BTUin/hrft<sup>2</sup>°F)</b>							
316°C(600°F)	0.07 (0.5)	0.07 (0.5)	0.07 (0.5)	0.07 (0.5)	0.09 (0.6)	0.09 (0.6)	0.09(0.6)
538°C(1000°F)	0.09 (0.6)	0.09 (0.6)	0.09 (0.6)	0.09 (0.6)	0.10(0.7)	0.10(0.7)	0.12(0.8)
760 °C (MOOT)	0.12(0.8)	0.12(0.8)	0.12(0.8)	0.14(0.9)	0.13(0.9)	0.13(0.9)	0.15(1.0)
1094°C(2000°F)	0.17(1.2)	0.17(1.2)	0.17(1.2)	0.20(1.3)	0.17(1.2)	0.17(1.2)	0.21(1.4)
<b>Chemical Analysis</b>							
Al <sub>2</sub> O <sub>3</sub>	39-41	48-50	63-65	63-65	45-47	52-54	71-73
SiO <sub>2</sub>	52-54	45-47	32-34	35-37	44-46	43-45	27-29
Others	2-3	1-2	1-2	-	2-3	3-4	-
LOI	4-6	4-6	5-6	4-6	4-5	4-5	4-6
Fiber Diameter (mm)	2-4	2-4	2-4	2-3	2-4	2-4	2-3
<b>Fiber Diameter Standard European</b>							
Thickness:	1/2"; 1 1/2" , 2", 2 1/2", 3"			10,12,5,25,38,ve 50mm.			
Width:	12";24"			610 ve 1000 mm.			
Length:	36";48"			1000 ve 1200 mm.			