



Ceramic Fiber Special Shapes



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.

Properties

NUTEC Fibrattec* ceramic fiber special shapes are available in a wide variety of shape configurations.

- 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.

Technical Specifications	LD-2300	MD-2300	HD-2300	LD-2600	LD-2800	LD-3000	MD-3000
Use Temperature							
Maximum Use °C	1260	1260	1260	1425	1538	1650	1650
(°F)	(2300)	(2300)	(2300)	(2600)	(2800)	(3000)	3000
Continuous Use °C	1149	1149	1149	1316	1425	1540	1540
(°F)	(2100)	(2100)	(2100)	(2400)	(2600)	(2800)	(2800)
Melting Point °C	1732	1732	1732	1780	1850	1815	1815
(°F)	(3150)	(3150)	(3150)	(3236)	(3362)	(3300)	(3300)
Density							
lbs./ft3	16-20	21-25	26-30	16-20	16-20	16-20	21-25
(Kg/m3)	(256-320)	(336-400)	(416-480)	(256-320)	(256-320)	(256-320)	(336-400)
Thermal Shrinkage (%) 24Hrs. @1200°C (2200°F)							
	2-3	1-2	1-2	2-3	1-2	@ 1540°C (2800°F) <4	@ 1540°C (2800T) <4
Thermal Conductivity W/m²K (BTU in/hr ft² °F)							
316°C(600°F)	0.07 (0.5)	0.09 (0.6)	0.13(0.9)	0.07 (0.5)	0.07 (0.5)	0.07(0.5)	0.09(0.6)
538°C(1000°F)	0.09 (0.6)	0.10(0.7)	0.15(1.0)	0.09 (0.6)	0.09 (0.6)	0.09 (0.6)	0.12(0.8)
760°C(1400°F)	0.12(0.8)	0.13(0.9)	0.17(1.2)	0.12(0.8)	0.12(0.8)	0.14(0.9)	0.15(1.0)
1094°C(2000°F)	0.17(1.2)	0.17(1.2)	0.20(1.4)	0.17(1.2)	0.17(1.2)	0.20(1.3)	0.21(1.4)
Chemical Analysis (%)							
Al2O3	39-41	45-47	43-45	48-50	63-65	63-65	71-73
SiO2	52-54	44-46	47-49	45-47	32-34	35-37	27-29
Others	2-3	2-3	2-3	1-2	1-2	-	-
LOI	4-6	4-5	4-5	4-6	5-6	4-6	4-6
Fiber Diameter (mm)	2-4	2-4	2-4	2-4	2-4	2-3	2-3

Bu bilgiler, de i ebilen tipik özellikleri temsil etmektedir ve spesifikasyon amacıyla kullanılmamalıdır.
This data represents typical properties subject to variations and should not to be used for specification purposes.

