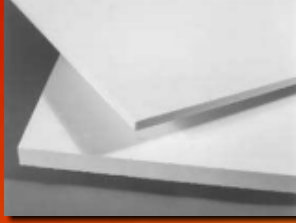


Ceramic Fiber Board



Properties

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.

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 | HD-2300 | HD-2600 | HD-3000 | INORGANIC | LD-CLOSE TOLERANCE | MO-CLOSE TOLERANCE |
|---|--------------------|--------------------|----------------------------|--------------------|--------------------|--------------------|
| Kullanılabilir Sıcaklık | | | | | | |
| Maksimum Sıcaklık °C (°F) | 1260 (2300) | 1425 (2600) | 1650 (3000) | 1260 (2300) | 1260 (2300) | 1260 (2300) |
| Sürekli Kullanma °C (°F) | 1149 (2100) | 1316 (2400) | 1540 (2800) | 1149 (2100) | 1000 (1830) | 1000 (1830) |
| Erime Noktası °C (°F) | 1732 (3150) | 1780 (3236) | 1815 (3300) | 1732 (3150) | 1732 (3150) | 1732 (3150) |
| Yoğunluk | | | | | | |
| lbs./ft ³ (Kg/m ³) | 26-30 (416-480) | 26-30 (416-480) | 26-30 (416-480) | 16-20 (256-320) | 16-20 (280-300) | 21-24 (340-380) |
| Isı Kaybı (%) 24Hrs. @1200°C (2200°F) | 1-2 | 1-2 | @ 1540°C (2800°F) <4 | 1-2 | 2-3 | 2-3 |
| Isı İletkenliği W/m²K (BTU in/hr ft² °F) | | | | | | |
| 316°C(600°F) | 0.13(0.9) | 0.13(0.9) | 0.13(0.9) | 0.07(0.5) | 0.07 (0.5) | 0.09 (0.6) |
| 538°C(1000°F) | 0.15(1.0) | 0.15(1.0) | 0.15(1.0) | 0.09(0.6) | 0.09 (0.6) | 0.10(0.7) |
| 760°C(1400°F) | 0.17(1.2) | 0.17(1.2) | 0.17(1.2) | 0.12(0.8) | 0.12(0.8) | 0.13(0.9) |
| 1094°C(2000°F) | 0.20(1.4) | 0.20(1.4) | 0.20(1.4) | 0.18(1.2) | 0.18(1.2) | 0.17(1.2) |
| Chemical Analysis (%) | | | | | | |
| Al ₂ O ₃ | 43-45 | 52-54 | 71-73 | 39-41 | 43-49 | 43-49 |
| SiO ₂ | 47-49 | 41-43 | 27-29 | 52-54 | 50-52 | 50-52 |
| Others | 2-3 | 5-7 | - | <1 | <2 | <2 |
| LOI | 4-5 | 4-5 | 4-6 | 4-6 | 4-6 | 4-5 |
| Elyaf Ölçüsü (mm) | 2-4 | 2-4 | 2-3 | 2-3 | 2-4 | 2-4 |

NOTE: special densities and dimensions available upon request. All data represents typical results of standard tests conducted under controlled conditions. As such, the information is intended only as a general guide for specification and design estimates. This information should be used for specification purpose.