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FIBRA CERAMICA EN PLACA

Brief description

Laurel ceramic fiber board is a lightweight refractory material processed with alumina-silica fibers for applications at temperatures up to 1430°C(2600°F)

Ceramic fiber 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

Technical data

Item	Common	Standard	H Pure	H Alumina	Zirconium
AL ₂ O ₃ (%)	44	46	47-50	52-55	39-40
Fe ₂ O ₃ (%)	1.2	1.0	0.2	0.2	0.2
ZrO ₂ (%)	—	—	—	—	15-19
Classification Temperature (°C)	1100	1260	1260	1360	1430
Working Temperature (°C)	1000	1050	1100	1200	1350
Density (kg/m ³)	260/320	260/320	260/320	260/320	260/320
Permanent linear shrinkage(%) (after 24 hours, density 128kg/m ³)	-4 (1000°C)	-3 (1000°C)	-3 (1100°C)	-3 (1250°C)	-3 (1350°C)
Tensile strength (Mpa) density 128kg/m ³)	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12

Features

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



Applications

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

