

Ceramic fiber blanket

Brief description

Laure ceramic fiber blanket is composed of long, flexible, interwoven fibers manufactured by the “blown” and the “spun” process yielding a strong, lightweight yet durable blanket for applications in a temperature range from 1100°C to 1430°C

Ceramic fiber blanket has the heat resistance of a hard refractory with five times better insulation value.

Features

1. Low thermal conductivity
2. Very low heat storage
3. Very high tensile strength
4. Thermal shock resistance
5. Sound absorption
6. Quick repairs. should lining damage occur, furnace can be cooled quickly
7. Contains no binder, no fumes or furnace atmosphere contamination
8. Contains no asbestos
9. No curing or dry out time, lining can be fired to operating temperature immediately



Technical data

Item	Common	Standard	H Pure	H Alumina	Zirconium
AL2O3(%)	44	46	47-50	52-55	39-40
Fe2O3(%)	1.2	1.0	0.2	0.2	0.2
ZrO2(%)	-	-	-	-	15-19
Classification Temperature (°C)	1100	1260	1260	1360	1430
Working Temperature (°C)	1000	1050	1100	1200	1350
Density (kg/m3)	96/128	96/128	96/128	128/160	128/160
Permanent linear shrinkage(%) (after 24 hours, density 128kg/m3)	-4 (1000°C)	-3 (1000°C)	-3 (1100°C)	-3 (1250°C)	-3 (1350°C)
Tensile strength (Mpa) density 128kg/m3	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12

Applications

Ceramic industry

1. Kiln car insulation and seals
2. Continuous and batch kilns

Steel industry

1. Heat treating and annealing furnaces
2. Furnace door linings and seals
3. Soaking pit covers and seals
4. Furnace hot face repairs
5. Reheating furnace and ladle covers

Refining and petrochemical

1. Reformer and pyrolysis lining
2. Tube seals, gaskets and expansion joints
3. High temperature pipe, duct and turbine insulation
4. Crude oil heater linings

Power generation

1. Boiler insulation
2. Boiler doors
3. Reusable turbine covers
4. Expansion seals/pipe coverings

Other

1. Insulation of commercial dryers and ovens
2. Veneer over existing refractory
3. Stress relieving insulation
4. Glass furnace crown protection
5. Fire protection

