

Ceramic Insulation Blanket

Spun Ceramic Fiber

Ceramic Insulation Blanket 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 538°C (1000°F) to 1260°C (2300°F). Ceramic Insulation Blanket has the heat resistance of a hard refractory with better insulation value and the following features:

Features

- > Low thermal conductivity.
- > Very low heat storage.
- > Very high tensile strength.
- > Thermal shock resistance.
- > Sound absorption.
- > Quick repairs. Should lining damage occur, furnace can be cooled quickly.
- > Contains no binder, no fumes or furnace atmosphere contamination.
- > Contains no asbestos.
- > No curing or dry out time, lining can be fired to operating temperature immediately.

Typical Applications

Refining and Petrochemical

- > Reformer and pyrolysis lining.
- > Tube seals, gaskets and expansion joints.
- > High temperature pipe, duct and turbine insulation.
- > Crude oil heater linings.

Steel Industry

- > Heat treating and annealing furnaces.
- > Furnace door linings and seals.
- > Soaking pit covers and seals.
- > Furnace hot face repairs.
- > Reheating furnace and ladle covers.

Ceramic Industry

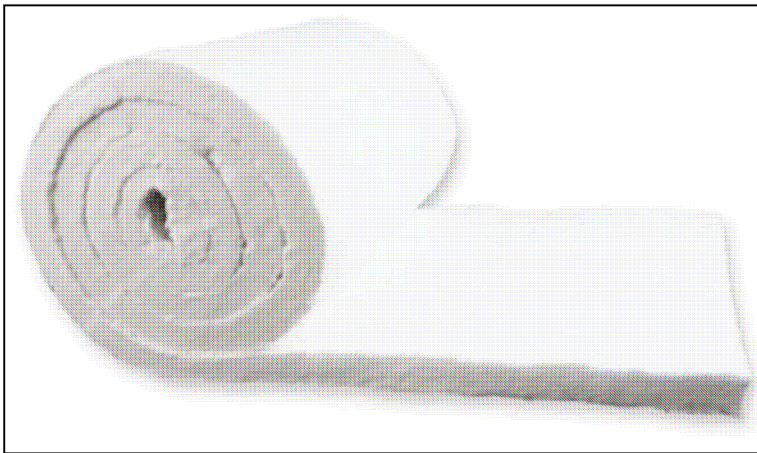
- > Kiln car insulation and seals.
- > Continuous and batch kilns.

Power Generation

- > Boiler insulation.
- > Boiler doors.
- > Reusable turbine covers.
- > Expansion seals pipe covering.

Others

- > Insulation of commercial dryers and ovens
- > Veneer over existing refractory.
- > Stress relieving insulation.
- > Glass furnace crown insulation.
- > Fire protection.



Typical Physical Properties

Max. Use Limit °C (°F)	1260 (2300)
Continuous Use Limit °C (°F)	1200 (2102)
Melting Point °C (°F)	1760 (3200)
Average Fiber Diameter Microns	3
Average Fiber Length mm (in)	203 (8)

Linear Shrinkage (%)

24 Hrs @ 1000 °C (1832 °F)	-
24 Hrs @ 1100 °C (2012 °F)	1.8
24 Hrs @ 1300 °C (2372 °F)	-

Chemical Analysis (%)

AL2O3	44-50
SiO2	50-56
ZrO2	-
Fe2O3	0.1-0.2
TiO2	0.1-0.2

