RAITECH CERAMITEX® SQ-5140

CX-5140

Data Sheet.

Ideal for sealing flanges, doors and manholes up to 1,200°C

Ceramitex® SQ-5140 is a high-performance sealing and thermal insulation square braided cord, manufactured from high-purity alumina-silica ceramic fiber yarns. It is produced using a mechanical square braiding process that gives it dimensional stability and density.

Ceramitex® SQ-5140 features a fiberglass carrier to increase its tensile strength during both installation and operation. This material is completely asbestos-free, lightweight, and resilient, making it ideal for industrial applications where efficient sealing is required under extreme heat conditions.

Ceramitex® SQ-5140 is a highly versatile material used in various industries (metallurgy, petrochemical, power generation, etc.) for the following applications:

- **Door sealing:** In industrial furnaces, boilers, wood-burning stoves, and heaters.
- **Expansion joints:** To absorb thermal expansion in high-temperature pipes and equipment.
- **Thermal insulation:** Envelope for exhaust pipes, cables, valves, and hoses exposed to radiant heat.
- **Foundry and metallurgy:** Sealing of molds, furnace cars, and aluminum or steel casting equipment.
- **Asbestos substitute**: Direct and safe replacement for old gaskets and seals.

Where to Use a Square Braided Cord?

- **Flat surfaces and flanges:** It's ideal when you need to seal the gap between two completely flat surfaces (metal or refractory) that will be joined together.
- **Rectangular channels or grooves:** If the oven or boiler door has a square or rectangular channel to accommodate the gasket, the square cord will fill the space perfectly.
- **Sealing heavy doors:** Widely used on crucible lids, industrial oven doors, and boilers.

Advantages of Square Braid:

- **Larger contact area:** Being flat on all four sides, it offers a wider and more uniform sealing surface against flat surfaces.
- **Doesn't roll:** When mechanical pressure is applied (when closing a door, for example), the square cord compresses evenly downwards without rolling or shifting out of position.
- **Greater density:** It is usually firmer and more resistant to mechanical abrasion.

TECHNICAL DATA:

Properties:	CERAMITEX® SQ-5140	Packing
Composition:	CERAMITEX® R Fiber (Ceramic fiber w/ Inorganic carrier)	
Chemical Composition:	Al2O3 y SiO2 Total: >97% (Al2O3:47%) Fe2O3:<1.1%	
Temperature, Max:	2,300	°F (peak)
Temperature,Continuous:	1,832	°F
Shrinking @ 1796°F, 3hr:	4-6	%
Ignition, Weight loss @ 1796°F:	6-8	%
Tensile strength, µ:	2-6	
Availability:	CERAMITEX® SQ-5140	Packing
Shape:	Square - Braided	
Diameter / Length:	1/4" / 700 ft 3/8" / 368 ft 1/2" / 525 ft 5/8" / 350 ft 3/4" / 250 ft 1" / 125 ft 1-1/4" / 98 ft 1-1/2" / 73 ft 2" / 46 ft	
Tolerances:	±10	%

***Tolerancia en medidas ±10%** **Tolerancia en largo: ±5%*

** Above 200°C, the product may smoke, due to the degradation of organic components, without altering its functioning.