

RAITECH® CERAMITEX®

KoaFib 1200



Ceramic fiber for insulation of equipment, pipes and ovens.

Ceramitex® KOAFIB 1200 is a ceramic fiber mattress, a high-temperature, lightweight, and flexible thermal insulation material made from long, interwoven inorganic alumina-silica fibers.

It is produced through a spinning or blowing process that gives it excellent tensile and tear strength, without the need for organic binders.

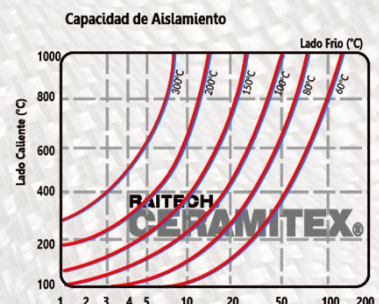
General Characteristics

- **Low thermal conductivity:** Excellent heat retention and energy savings.
- **Low thermal capacity:** Allows for rapid heating and cooling in furnace cycles.
- **High thermal shock resistance:** Does not crack or break with sudden temperature changes.
- **Chemical stability:** Resists most chemical attacks, except hydrofluoric acid, phosphoric acid, and strong alkalis.
- **Non-combustible:** Excellent fire protection.

TECHNICAL DATA:

Properties:	KOAFIB® 1200	Sheet
Composition:	CERAMITEX® S Ceramic Fiber	
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:	3.5	%
Ignition, Weight loss @ 1796°F:	8-10	%
Tensile strength, μ :	2-6	
Availability:	KOAFIB® 1200	Roll
Shape:	Flat - Non Woven	
Density:	4 lbs/ft3	
Thermal conductivity, ASTM C201:	BTU * in./hr * ft2 * °F @500°F (260°C) 0.54k (0.08 W/mK) @1000°F (538°C) 1.29k (0.19 W/mK) @1500°F (816°C) 2.30k (0.33 W/mK) @1800°F(982°C) 2.96k (0.43 W/mK)	
Density:	6 lbs/ft3	
Thermal conductivity, ASTM C201:	BTU * in./hr * ft2 * °F @500°F (260°C) 0.47k (0.07 W/mK) @1000°F (538°C) 1.01k (0.15 W/mK) @1500°F (816°C) 1.73k (0.25 W/mK) @1800°F(982°C) 2.19k (0.32 W/mK)	
Density:	8 lbs/ft3	
Thermal conductivity, ASTM C201:	BTU * in./hr * ft2 * °F @500°F (260°C) 0.44k (0.06 W/mK) @1000°F (538°C) 0.87k (0.12 W/mK) @1500°F (816°C) 1.45k (0.21 W/mK) @1800°F(982°C) 1.83k (0.26 W/mK) @2000°F(1093°C) 2.09k (0.30 W/mK)	
Thickness / Width / Length:	1/2" / 24" / 50 ft 1" / 24" / 25 ft 1-1/2" / 24" / 16.5 ft 2" / 24" / 12.5 ft	
Tolerances:	±10	%

****Measurement tolerance: ±10%** **Length tolerance: ±5%****



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