

ICHS Fiberfax® Alumina-Silica Ceramic Fibers

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fiberfax® ceramic fibers are made from high-purity alumina-silica materials. ICHS uses Fiberfax® ceramic fiber to manufacture vacuum-formed products in: High-Temperature Ductwork, Combustion Chambers, Exhaust Flues, Incinerators. Offers high-temperature stability, low thermal conductivity, low heat storage, excellent thermal shock resistance, light weight, superior corrosion resistance and excellent sound absorption. These fibers can be further modified to improve thermal conductivity to meet customer requirements. The fibers resistant to oxidation, reduction, and attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkali solutions. If saturated by water or steam, thermal and physical properties are restored upon drying. Fiber Diameter is 2-3 µm; LOI is 6-7%; Shrinkage in 24 hrs. is 4.5% at continuous use limit or 1.8% at 920°C. Information provided by International Ceramics & Heating Systems (ICHS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_ICHS-Fiberfax-Alumina-Silica-Ceramic-Fibers.php

Physical Properties	Metric	English	Comments
Density	2.73 g/cc	0.0986 lb/in ³	Raw material (not vacuum-formed products)

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.150 MPa	21.8 psi	Fired; 5 to 15% Deformation
	0.300 - 0.400 MPa	43.5 - 58.0 psi	Green strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0900 W/m-K	0.625 BTU-in/hr-ft ² - °F	
	@Temperature 316 °C	@Temperature 601 °F	
Melting Point	0.220 W/m-K	1.53 BTU-in/hr-ft ² - °F	
	@Temperature 982 °C	@Temperature 1800 °F	
Maximum Service Temperature, Air	1790 °C	3250 °F	Continuous Use Limit

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	26.9 kV/in	

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