

Unifrax Fiberfrax® 440 Ceramic Fiber Paper

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

440 paper is a low-cost, high-strength composite paper made from a combination of ceramic fiber, inert fillers, and reinforcing fiberglass. The fiberglass gives added strength to the 440 paper at operating temperatures between 450 and 1300°F. This product is formulated with a fire retardant smoke suppressant reducing the effects of the organic binder burnout. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-440-Ceramic-Fiber-Paper.php

Physical Properties	Metric	English	Comments
Density	0.208 g/cc	0.00752 lb/in ³	
Loss On Ignition	9.5 %	9.5 %	including binder

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	0.310 MPa	45.0 psi	As manufactured
Tensile Strength, Yield	0.593 MPa	86.0 psi	As manufactured
Compressive Strength	0.0345 MPa	5.00 psi	10% deformation
	0.234 MPa	34.0 psi	25% deformation
	3.37 MPa	489 psi	50% deformation

Thermal Properties	Metric	English	Comments
Melting Point	982 °C	1800 °F	
Maximum Service Temperature, Air	704 °C	1300 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
Al2O3	32 - 35 %	32 - 35 %	
Fe2O3	<= 2.0 %	<= 2.0 %	
SiO2	42 - 46 %	42 - 46 %	

Descriptive Properties	Value	Comments
Color	Gray	
Na2O3 (%)	<2	

Temperature Grade (°C)

Descriptive Properties	Value	Comments
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