

Unifrax Fiberfrax® Durablanket® S Ceramic Fiber Insulator

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fiberfrax Durablanket S insulation is a strong, lightweight, flexible needled blanket that is made from spun ceramic fibers. Available in a wide variety of thicknesses, widths and densities, Durablanket S insulation provides an array of proven solutions for a broad spectrum of application problems. Typical Applications Furnace, kiln, reformer and boiler linings Investment casting mold wrappings Removable insulating blankets for stress relieving welds Reusable insulation for steam and gas turbines Flexible high-temperature pipe insulation Pressure and cryogenic vessel fire protection High-temperature kiln and furnace insulation Furnace door linings and seals Soaking pit seals Furnace repairs Thermal reactor insulation Expansion joint seals Primary reformer header insulation Incineration equipment and stack linings Annealing cover seals High-temperature filtration Nuclear insulation applications Atmosphere furnace lining Field steam generator lining Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-Durablanket-S-Ceramic-Fiber-Insulator.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.73 g/cc	2.73 g/cc	
Density	0.0641 g/cc	0.00231 lb/in ³	Available
	0.0961 g/cc	0.00347 lb/in ³	Available
	0.128 g/cc	0.00463 lb/in ³	Available

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.0276 MPa	4.00 psi	at 4 PCF; ASTM 686-76
	0.0414 MPa	6.00 psi	at 6 PCF; ASTM 686-76
	0.0483 MPa	7.00 psi	at 8 PCF; ASTM 686-76

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.13 J/g-°C	0.270 BTU/lb-°F	
	@Temperature 1093 °C	@Temperature 1999 °F	
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1177 °C	2151 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
Al2O3	43 - 47 %	43 - 47 %	
Alkalis	0.050 %	0.050 %	

Component Elements Properties	Metric	English	Comments
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Descriptive Properties	Value	Comments
Average Fiber Diameter (microns)	2.5-3.5	
Color	White	
Fiber Diameter (microns)	2.5-3.5	
Leachable Chlorides (ppm)	<10	
Na2O3 (%)	<0.5	
Other Inorganics (%)	0.85	
Temperature Grade (°C)	1260	

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