

Unifrax Fiberfrax® Durablanket® HP-S Ceramic Fiber Insulator

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fiberfrax Durablanket HP-S insulation is a needled blanket made from spun Fiberfrax ceramic fibers. Durablanket HP-S insulation combines all of the physical characteristics offered by Durablanket S insulation in a product with a high-purity chemistry. The chemistry of Durablanket HP-S provides improved performance and service life in applications where fluxing or chemical attack occurs. 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-HP-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

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.13 J/g-°C @Temperature 1093 °C	0.270 BTU/lb-°F @Temperature 1999 °F	
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1204 °C	2199 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
Al2O3	43 - 47 %	43 - 47 %	
SiO2	53 - 57 %	53 - 57 %	

Descriptive Properties	Value	Comments
Average Fiber Diameter (microns)	2.5-3.5	
Color	White	

Descriptive Properties	Value	Comments
Leachable Chlorides (ppm)	<10	
Na2O3 (%)	<0.5	
Temperature Grade (°C)	1260	

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