

Unifrax Insulfrax® Paper

Category : Ceramic

Material Notes:

Insulfrax® Paper is an evolutionary product which is manufactured by forming Insulfrax Fiber in a nonwoven matrix. These fibers are randomly oriented during manufacturing and then held in place with a latex binder system. A specialized paper-making process is utilized to form uniform lightweight, flexible materials, including Insulfrax Paper. Insulfrax Fiber, utilized in Insulfrax Paper, is based upon a calcium, magnesium, silicate (CMS) chemistry. This CMS fiber chemistry has been successfully used to solve a variety of application problems from 800°F (427°C) up to 2012°F (1100°C). In addition to high temperature resistance, Insulfrax Fiber meets European regulatory requirements (Directive 97/69/EC). The calcium, magnesium, silicate chemistry of Insulfrax Fiber provides superior wetting resistance to molten aluminum alloys. Testing with corrosive aluminum alloys at elevated temperatures has proven that Insulfrax is superior to traditional alumina/silica refractory ceramic fibers. Insulfrax Paper will generate small amounts of smoke and trace element outgassing during initial exposure to temperatures above 450°F (232°C). Advantages High-temperature stability up to 2012°F (1100°C) Meets European regulatory requirements Superior wetting resistance to molten aluminum Low thermal conductivity Flexibility Easy to wrap, shape, or cut Applications Automotive and aerospace heat shields Gaskets for ovens, stoves, heaters, and other appliances Nonferrous ingot mold liners Refractory backup insulation in ladles, glass tanks, and other high-temperature furnaces Parting medium in brazing and soldering Molten aluminum transfer systems

Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Insulfrax-Paper.php

Physical Properties	Metric	English	Comments
Density	0.144 - 0.160 g/cc	0.00521 - 0.00579 lb/in ³	
Loss On Ignition	<= 12 %	<= 12 %	(Wt.) including binder

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 0.248 MPa	>= 36.0 psi	Average

Thermal Properties	Metric	English	Comments
Melting Point	1310 °C	2390 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	Recommended Operating Temperature
Shrinkage	<= 4.0 % @Temperature 1100 °C, Time 86400 sec	<= 4.0 % @Temperature 2010 °F, Time 24.0 hour	

Descriptive Properties	Value	Comments
Color	White	

<div>Fiber Index (% WT)</div> <div>Descriptive Properties</div>	<div>>50</div> <div>Value</div>	Comments
Temperature Grade (°C)	1260	

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