

Unifrax Insulfrax® S Blanket Insulation

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Insulfrax S Blanket is a flexible, strong, lightweight, needled blanket produced from Insulfrax Fiber. Mechanical needling of the spun Insulfrax fibers eliminates the need for binders in the product's manufacture and results in a product with high tensile strength. Since Insulfrax S Blanket is completely inorganic, the product exhibits no smoke generation or outgassing in service. Insulfrax S Blanket combines low thermal conductivity with excellent resistance to thermal shock. Note that high humidity and wetting with water prior to service has little effect on Insulfrax S Blanket. A series of green dots on the surface of the blanket make identification, tracking, and inspection of Insulfrax S Blanket simple on the job site or in the fabrication shop. The Insulfrax Fiber calcium, magnesium, silicate chemistry provides superior wetting resistance to molten aluminum alloys. Testing with corrosive aluminum alloys at elevated temperatures has proven that Insulfrax fibers are superior to traditional alumina/silica refractory ceramic fibers.

Applications: Residential self-cleaning ovens; High-temperature commercial cooking appliances
Hearth Products: Chimney insulation
Primary Metals: Expansion joint seals; Aluminum transfer ladle covers; Backup insulation for dense refractory linings; Backup insulation for refractory ceramic fiber or Isofrax® linings; Maintenance blanket; Heat shields
Metals Processing: Stress relieving blankets; Seals and gaskets
Petrochemical/Power: Reusable insulating pads; External boiler and duct insulation
Ceramic and Glass: Glass tank crown insulation; Expansion joints; Carbon baking furnace covers

Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Insulfrax-S-Blanket-Insulation.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.67 g/cc	2.67 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.0276 MPa	4.00 psi	4 PCF
	0.0345 MPa	5.00 psi	6 PCF
	0.0483 MPa	7.00 psi	8 PCF

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.00 J/g-°C	0.239 BTU/lb-°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Melting Point	1310 °C	2390 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
CaO	27 - 33 %	27 - 33 %	

Component Elements Properties	Metric	English	Comments
SiO2	61 - 67 %	61 - 67 %	

Descriptive Properties	Value	Comments
Color	White	
Fiber Diameter (microns)	3-5	
Fiber Index (%)	55-60	
Other Inorganics (%)	<1	
Temperature Grade (°C)	1260	

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