

Unifrax Fiberfrax® Fibermax® Mat Ceramic Fiber Insulator

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fibermax Mat is a high-temperature, flexible mat product that is lightweight (1.5 lb/ft³ density) and highly resilient. It is composed entirely of Fibermax polycrystalline mullite fibers to produce a product that is high-temperature (1650°C / 3000°F) resistant and virtually shot-free. Fibermax Mat contains no organic binders or other additives which cause outgassing fumes or associated problems. In addition to exhibiting excellent resistance to attack from most corrosive agents (exceptions include hydrofluoric acid, phosphoric acid and strong alkalis), Fibermax fiber also resists oxidation and reduction. Typical Applications Expansion joint packing Burner wraps Batten strips with fiber modules Aluminum homogenizing furnace linings Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-Fibermax-Mat-Ceramic-Fiber-Insulator.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.00 g/cc	3.00 g/cc	
Density	0.0240 g/cc	0.000868 lb/in ³	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.246 J/g-°C @Temperature 1093 °C	0.2978 BTU/lb-°F @Temperature 1999 °F	
Melting Point	1870 °C	3400 °F	
Maximum Service Temperature, Air	1566 °C	2851 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	72 %	72 %	
CaO	0.050 %	0.050 %	
Fe ₂ O ₃	0.020 %	0.020 %	
MgO	0.050 %	0.050 %	
SiO ₂	27 %	27 %	
TiO ₂	0.0010 %	0.0010 %	

Descriptive Properties	Value	Comments
Color	White	
Fiber Diameter (microns)	2-3.5	

Descriptive Properties ^{2/g}	Value	Comments
Leachable Chlorides (ppm)	11	
Na2O3 (%)	0.1	
Temperature Grade (°C)	1650	

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