

Unifrax Fiberfrax® Fibermat® Blanket Ceramic Fiber Insulator

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fiberfrax Fibermat is a lightweight, high-strength needled insulating blanket. The blanket fibers are spun from a ceramic composition having a normal use limit of 760°C (1400°F). Fibermat is completely inorganic and derives its exceptional strength from the needling of long ceramic fibers. It has excellent thermal and acoustical insulating properties. Typical Applications Acoustical insulation Thermal insulation for external applications Insulating pads Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-Fibermat-Blanket-Ceramic-Fiber-Insulator.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.73 g/cc	2.73 g/cc	
Density	0.0881 g/cc	0.00318 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.0483 - 0.0689 MPa	7.00 - 10.0 psi	ASTM 686-76

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	677 °C	1250 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	29 - 47 %	29 - 47 %	
SiO ₂	52 - 57 %	52 - 57 %	
ZrO ₂	<= 18 %	<= 18 %	

Descriptive Properties	Value	Comments
Color	White	
Fiber Diameter (microns)	2.5-3.5	
Leachable Chlorides (ppm)	<10	
Na ₂ O ₃ (%)	<0.5	
Temperature Grade (°C)	760	

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