SONGHAN Plastic Technology Co., Ltd.

## **Unifrax Fibermax® Needled Blanket**

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

#### Material Notes:

Fibermax® Needled Blankets are high temperature, light weight and flexible products manufactured from polycrystalline mullite fiber that can be exposed to temperatures up to 1600°C (2912°F). Fibermax Needled Blankets contain no organic binders or other additives which cause outgassing fumes or associated problems. In addition to exhibiting excellent resistance to most corrosive agents, Fibermax Needled Blankets also resist oxidation and reduction. Fibermax Needled Blankets are virtually free from shot (unfiberized particles). That makes it ideal for use in environments where the presence of shot is undesirable. The low shot content results in a product with extremely low thermal conductivity. Its unique fiber layup and needling process provide Fibermax Needled Blankets with outstanding consistency, handling strength and resiliency at elevated temperatures.General CharacteristicsExcellent thermal stability and thermal shock resistanceExcellent chemical stabilityExcellent tensile strengthLow thermal conductivityLow heat storageHigh heat reflectanceExcellent corrosion resistanceExcellent hot strengthTypical ApplicationsCeramic: Porcelain kilns, Substrate kilns, Refractory production kilnsSteel Production: Reheat furnacing, Continuous annealing furnacesSpecialty Applications: Feritic cores, Aluminum homogenizing furnaces, Catalyst supports, Incineration, High-performance atmospheric furnaces, High vibration applicationsGeneral Refractory Construction: Burner block wraps, Expansion joints, Gaskets, Batten stripsInformation Provided by Unifrax I LLC

### Order this product through the following link:

http://www.lookpolymers.com/polymer\_Unifrax-Fibermax-Needled-Blanket.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.00 g/cc	3.00 g/cc	
Density	0.0961 g/cc	0.00347 lb/in <sup>3</sup>	
	0.128 g/cc	0.00463 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.0414 MPa	6.00 psi	6 lb/ft <sup>3</sup>
	0.0552 MPa	8.00 psi	8 lb/ft <sup>3</sup>

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.246 J/g-°C	0.2978 BTU/lb-°F	
	@Temperature 1093 °C	@Temperature 1999 °F	
Melting Point	1870 °C	3400 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	Recommended Operating Temperature
Shrinkage	0.70 %	0.70 %	
	@Temperature 1500 °C, Time 86400 sec	@Temperature 2730 °F, Time 24.0 hour	Permanent Linear Shrinkage

### SONGHAN Plastic Technology Co., Ltd.

www.lookpolymers.com email:sales@lookpolymers.com

Component Elements Properties	Metric	English	Comments
AI2O3	72 %	72 %	
CaO	0.050 %	0.050 %	
Fe2O3	0.020 %	0.020 %	
MgO	0.050 %	0.050 %	
Si02	27 %	27 %	
TiO2	0.0010 %	0.0010 %	

Descriptive Properties	Value	Comments
Appearance	White	
Fiber Diameter (microns)	2-3.5	
Fiber Surface Area (m2/g)	7.65	
Leachable Chlorides (ppm)	11	
Na2O3 (%)	0.1	
Temperature Grade (°C)	1650	

# Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com Email : sales@lookpolymers.com Tel : +86 021-51131842 Mobile : +86 13061808058 Skype : lookpolymers Address : United North Road 215,Fengxian District, Shanghai City,China