

Tritex TREO Needled Blanket Insulation

Category : Other Engineering Material , Composite Fibers

Material Notes:

Values and Benefits Bio-soluble fiber Easy to fabricate Low shot content Typical Applications Furnace linings Thermal insulation Acoustic insulation Fire protection Heat shields Turbine wrap Typical Industries Served Aluminum - primary/secondary Power Generation Appliance Fire Protection Foundries Petrochemical Marine Automotive Ceramic Industry Information provided by TRITEX

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tritex-TREO-Needled-Blanket-Insulation.php

Physical Properties	Metric	English	Comments
Density	2.70 - 2.90 g/cc	0.0975 - 0.105 lb/in ³	
Loss On Ignition	<= 0.50 %	<= 0.50 %	
Filament Diameter	6.0 µm	6.0 µm	Average

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	552 MPa	80000 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0601 W/m-K	0.417 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.133 W/m-K	0.922 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.244 W/m-K	1.69 BTU-in/hr-ft ² -°F	
	@Temperature 816 °C	@Temperature 1500 °F	
	0.327 W/m-K	2.27 BTU-in/hr-ft ² -°F	
	@Temperature 982 °C	@Temperature 1800 °F	
Melting Point	>= 1100 °C	>= 2010 °F	Fiber
Maximum Service Temperature, Air	1000 °C	1830 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	14 %	14 %	Primary Fiber
CaO	15 %	15 %	Primary Fiber
FeO	0.10 %	0.10 %	Primary Fiber

Component Elements Properties	Metric	English	Comments
MnO	10 %	10 %	Primary Fiber
Other	3.4 %	3.4 %	Primary Fiber
SiO2	42 %	42 %	Primary Fiber

Descriptive Properties	Value	Comments
Average Fiber Length (mm)	4-8	
Color	off-white	
Moisture Resistant	Yes	
Surface Treatment	None	

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