Zircar Zirconia Buster Mat Alumina Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide

Material Notes:

Buster Blanket and Buster Mat are flexible, Hi-Alpha alumina fiber insulation materials. The mat is 100% fibers while the blanket has been needled into a durable blanket with the addition of an organic fiber reinforcement. Both forms have useful properties up to 1600°C. These polycrystalline fiber blankets offer higher temperature capability, less shrinkage and greater chemical resistance than standard alumina-silica blankets. Buster Mat exhibits lower thermal conductivity, lower thermal mass and greater thermal shock resistance than all alumina-silica blankets, while also providing a much cleaner insulation. The minor addition of silica modifies the alumina fiber's microcrystalline structure and acts as a grain growth inhibitor and prevents embrittlement that usually occurs in pure alumina after extended use at elevated temperatures. Buster Mat resists attack in aggressive chemical environments due to its high purity & refractory nature. It is stable in vacuum, inert, oxidizing or reducing atmospheres. Flexible Buster products are useful as insulation packing in furnace spaces, around furnace sight tubes & ports and as filler in expansion joints and masonry cracks.Features: Available in Two Different FormsLow Thermal ConductivityHighly RefractoryNon-RCF FibersLow Shrinkage up to 1500°C97% Pure AluminaAvailable “Off the Shelf”Information provided by Zircar Zirconia.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zircar-Zirconia-Buster-Mat-Alumina-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.0350 g/cc	0.00126 lb/in³	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.513 W/m-K @Temperature 1200 °C	3.56 BTU-in/hr-ft²-°F @Temperature 2190 °F	
	0.635 W/m-K @Temperature 1400 °C	4.41 BTU-in/hr-ft²-°F @Temperature 2550 °F	
	0.756 W/m-K @Temperature 1600 °C	5.25 BTU-in/hr-ft²-°F @Temperature 2910 °F	
Melting Point	2038 °C	3700 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	
Shrinkage	<= 4.00 % @Temperature 1500 °C, Time 21600 sec	<= 4.00 % @Temperature 2730 °F, Time 6.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	97 %	97 %	

Component Elements Properties	Metric	English	Comments
SiO2	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
Trace Impurities	<0.5%	
Trace Inorganics	0	

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