

Zircar Zirconia BusterF- 10 Alumina Bulk Fiber Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide

Material Notes:

Alumina Bulk Fibers Type BusterF are Hi-Alpha alumina fibers available in two different forms, both having useful properties up to 1700°C. These polycrystalline fibers can be vacuum formed into rigid shapes, placed into cavities as loose fill insulation, or added to ceramic bodies and coatings for reinforcement. They are differentiated by fiber length but share the same fiber diameter and calcined chemical composition. Typically these fibers are 3 to 4 microns in diameter. BusterF fibers exhibit low thermal conductivity, low thermal mass and immunity to thermal shock. A minor addition of silica modifies the 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. BusterF fibers resist attack in aggressive chemical environments due to its high purity & refractory nature. It is stable in vacuum, inert or reducing atmospheres. BusterF fibers yield a uniform body of 0.16 - 0.24 gm/cm³ (10-15 pcf) density, when vacuum formed from a water slurry. BusterF- 10 fibers will produce higher density vacuum formed boards and cylinders. Silica, alumina and aluminum phosphate binders can be used to form rigid refractory thermal insulation products. BusterF fiber is useful as insulation packing in furnace spaces, around furnace sight tubes & ports and fill in expansion joints and masonry cracks. Features: Available in Two Different Forms Low Thermal Conductivity Highly Refractory Low Heat Storage Extreme High Temperature Stability 97% Pure Alumina Lightweight Available "Off the Shelf" Information provided by Zircar Zirconia.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Zirconia-BusterF-10-Alumina-Bulk-Fiber-Insulation.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.40 g/cc	3.40 g/cc	Fiber
Bulk Density	0.100 g/cc	0.00361 lb/in ³	Shipping

Thermal Properties	Metric	English	Comments
Melting Point	2038 °C	3700 °F	
Maximum Service Temperature, Air	1700 °C	3090 °F	
Shrinkage	2.00 % @Temperature 1538 °C, Time 3600 sec	2.00 % @Temperature 2800 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	97 %	97 %	
SiO ₂	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
Alpha Alumina	>50%	

Descriptive Properties	Value	Comments
Mean Fiber Diameter	3.5 microns	
Trace Inorganics	0	

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