Zircar Zirconia ALF-100 Alumina Felt Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide

Material Notes:

Alumina (Al2 O3) has excellent thermal shock resistance, high dimensional stability and good chemical inertness, which makes our alumina fiber products ideal for fast firing cycles up to 1700°C. Our alumina fibers and textiles are made by the same unique Zircar process used for manufacturing yttria-stabilized zirconia cloths and felts. This process yields a high purity alumina fiber with only trace amounts of silica, making it more stable in hydrogen environments than the more commonly found sol-gel alumina fibers that have 3% silica. Our high purity alumina fiber and textiles are offered in six different standard product forms bulk fiber Type ALBF, two felts Types ALF-50 and ALF-100 and three types of knit cloth Types ALK-15, ALW-15 and ALW-30.Features: Excellent Thermal Shock Resistance99% Pure AluminaTrace Level of Silica (0.09 wt%)Dimensional Stability in HydrogenLow Thermal ConductivityNo OutgassingSix Different Product Formats OfferedAvailable 'Off the Shelf'Application Information: Alumina fiber textiles are used as insulation for glass melting furnaces.Alumina bulk fiber, Type ALBF, is used as bulk fill insulation.Alumina fiber textiles are used as insulation for fiber optic furnaces.Alumina fiber textiles are used in SOFC and PEM type fuel cells as gaskets.Alumina fiber cloth is used as insulation in differential scanning calorimeters (DSC's).Information provided by Zircar Zirconia.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zircar-Zirconia-ALF-100-Alumina-Felt-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.130 g/cc	0.00470 lb/in³	
Loss On Ignition	3.80 % @Temperature 950 °C, Time 3600 sec	3.80 % @Temperature 1740 °F, Time 1.00 hour	
Porosity	97 %	97 %	Bulk
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2015 °C	3659 °F	
Shrinkage	15.0 % @Temperature 1650 °C, Time 3600 sec	15.0 % @Temperature 3000 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 99 %	>= 99 %	
CaO	0.060 %	0.060 %	
SiO2	0.090 %	0.090 %	
ZrO2+Y2O3			

Component Elements Properties	Metric	English	Comments
0.42 %		0.42 %	

Descriptive Properties	Value	Comments
Tensile Strength per Unit Width	49 gram/cm width	

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