

Zircar Zirconia CeK-15 Ceria Knit Textile Insulation

Category : Ceramic , Machinable Ceramic , Oxide

Material Notes:

Ceria (cerium dioxide), CeO₂, has a very high surface area and is ideal as a catalyst support. Our ceria fibers and textiles are made by the same unique Zircar process used for manufacturing yttria-stabilized zirconia textiles. Our high purity ceria fiber and textiles are offered in six different standard product forms; bulk fiber Type CeBF, two felts Types CeF- 50 and CeF-100 and three types of knit cloth Types CeK-15, CeW-15 and CeW-30. Features: High Purity High Temperature Stability Low Thermal Conductivity Excellent Thermal Shock Resistance No Outgassing Six Different Product Formats Offered Available 'Off the Shelf' Application Information: Ceria Bulk Fiber and Felt are used in molten carbonate fuel cells. Ceria Knit Cloth is used for product development of gas sensors. Information provided by Zircar Zirconia.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Zirconia-CeK-15-Ceria-Knit-Textile-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.690 g/cc	0.0249 lb/in ³	
Loss On Ignition	0.300 % @Temperature 950 °C, Time 3600 sec	0.300 % @Temperature 1740 °F, Time 1.00 hour	
Porosity	90 %	90 %	Bulk
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2590 °C	4690 °F	
Shrinkage	7.00 % @Temperature 1650 °C, Time 3600 sec	7.00 % @Temperature 3000 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	0.050 %	0.050 %	
CeO ₂	>= 99 %	>= 99 %	
Fe ₂ O ₃	0.030 %	0.030 %	
SiO ₂	0.040 %	0.040 %	

Descriptive Properties	Value	Comments
Tensile Strength per Unit Width	18 gram/cm width	

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