

Zircar Zirconia YK-15 Yttria Knit Textile Insulation

Category : Ceramic , Machinable Ceramic , Oxide

Material Notes:

Yttria (yttrium oxide - Y2O3) is typically used as a stabilizer for zirconia. It is offered here in its pure and stable metal oxide form, which is not attacked by most molten metals, including lithium and titanium. Our high purity yttria fiber and textiles are offered in six different standard product forms; bulk fiber Type YBF, two felts Types YF-50 and YF-100 and three types of knit cloth Types YK-15, YW-15 and YW-30.

Features: High PurityHigh Temperature StabilityLow Thermal ConductivityExcellent Thermal Shock ResistanceNo OutgassingSix Different Product Formats OfferedAvailable 'Off the Shelf'

Application Information: Yttria textiles are used in the development of large grain Rare Earth Barium Copper Oxide (REBCO) melt processed high temperature superconductors (HTS).

Information provided by Zircar Zirconia.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zircar-Zirconia-YK-15-Yttria-Knit-Textile-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.420 g/cc	0.0152 lb/in³	
Loss On Ignition	6.00 % @Temperature 1650 °C, Time 3600 sec	6.00 % @Temperature 3000 °F, Time 1.00 hour	
Porosity	92 %	92 %	Bulk
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2410 °C	4370 °F	
Shrinkage	13.0 % @Temperature 1650 °C, Time 3600 sec	13.0 % @Temperature 3000 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	0.0030 %	0.0030 %	
Fe2O3	0.020 %	0.020 %	
SiO2	0.020 %	0.020 %	
Y2O3	>= 99 %	>= 99 %	

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

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