

## Zircar Zirconia YW-15 Yttria Woven 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 Purity High Temperature Stability Low Thermal Conductivity Excellent Thermal Shock Resistance No Outgassing Six Different Product Formats Offered Available '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-YW-15-Yttria-Woven-Textile-Insulation.php](http://www.lookpolymers.com/polymer_Zircar-Zirconia-YW-15-Yttria-Woven-Textile-Insulation.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.460 g/cc	0.0166 lb/in <sup>3</sup>	
Loss On Ignition	13.0 % @Temperature 1650 °C, Time 3600 sec	13.0 % @Temperature 3000 °F, Time 1.00 hour	
Porosity	91 %	91 %	Bulk
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2410 °C	4370 °F	
Shrinkage	11.0 % @Temperature 1650 °C, Time 3600 sec	11.0 % @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	16 gram/cm width	

## Contact Songhan Plastic Technology Co.,Ltd.

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