

## Zircar Zirconia HfF-15 Hafnia Knit Textile Insulation

Category : Ceramic , Machinable Ceramic , Oxide

### Material Notes:

Our hafnia (HfO<sub>2</sub>) fibers and textiles are made by the same unique Zircar process used for manufacturing yttria-stabilized zirconia cloths and felts. Our high purity hafnia fiber and textiles are offered in six different standard product forms; bulk fiber Type HfBF, two felts Types HfF-50 and HfF-100 and three types of knit cloth Types HfK-15, HfW-15 and HfW-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: Hafnia is used as ultra high temperature insulation for nuclear meltdown experiments. Information provided by Zircar Zirconia.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Zirconia-HfF-15-Hafnia-Knit-Textile-Insulation.php](http://www.lookpolymers.com/polymer_Zircar-Zirconia-HfF-15-Hafnia-Knit-Textile-Insulation.php)

Physical Properties	Metric	English	Comments
Bulk Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	
Loss On Ignition	0.000 % @Temperature 950 °C, Time 3600 sec	0.000 % @Temperature 1740 °F, Time 1.00 hour	
Porosity	89 %	89 %	Bulk
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2758 °C	4996 °F	
Shrinkage	6.00 % @Temperature 1650 °C, Time 3600 sec	6.00 % @Temperature 3000 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Fe <sub>2</sub> O <sub>3</sub>	0.012 %	0.012 %	
HfO <sub>2</sub>	>= 99 %	>= 99 %	
SiO <sub>2</sub>	<= 0.010 %	<= 0.010 %	
ZrO <sub>2</sub>	0.026 %	0.026 %	

Descriptive Properties	Value	Comments
Tensile Strength per Unit Width	100 gram/cm width	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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