

Zircar Zirconia HfF-100 Hafnia Felt Insulation

Category : Ceramic , Machinable Ceramic , Oxide

Material Notes:

Our hafnia (HfO₂) 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-100-Hafnia-Felt-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 g/cc	0.0181 lb/in ³	
Loss On Ignition	0.100 % @Temperature 950 °C, Time 3600 sec	0.100 % @Temperature 1740 °F, Time 1.00 hour	
Porosity	95 %	95 %	Bulk
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2758 °C	4996 °F	
Shrinkage	5.00 % @Temperature 1650 °C, Time 3600 sec	5.00 % @Temperature 3000 °F, Time 1.00 hour	

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

Descriptive Properties	Value	Comments
Tensile Strength per Unit Width	55 gram/cm width	

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