

Zircar Zirconia ZOF-100 Pure Zirconia Felt Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Zirconium Oxide

Material Notes:

Zircar's unique process for manufacturing yttria-stabilized zirconia cloths and felts is also used in the production of pure zirconia refractory fibers and textiles without stabilizers. For those processes which are intolerant of yttria, these unstabilized pure zirconia fiber products provide much of the same high performance insulating benefits. Pure zirconia fibers exist in the monoclinic crystal phase and appear white in color. Our high purity zirconia fiber and textiles are offered in six different standard product forms; bulk fiber Type ZOBF, two felts Types ZOF-50 and ZOF-100 and three types of knit cloth Types ZOK-15, ZOW-15 and ZOW-30. Features: High Purity Zirconia High Temperature Stability Low Thermal Conductivity Excellent Thermal Shock Resistance No Outgassing Six Different Product Formats Offered Available 'Off the Shelf' Application Information: Pure zirconia cloth is used as high temperature insulation for advanced energy systems. Information provided by Zircar Zirconia.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Zirconia-ZOF-100-Pure-Zirconia-Felt-Insulation.php

Physical Properties	Metric	English	Comments
Loss On Ignition	0.340 % @Temperature 950 °C, Time 3600 sec	0.340 % @Temperature 1740 °F, Time 1.00 hour	
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2590 °C	4690 °F	
Shrinkage	0.000 % @Temperature 1650 °C, Time 3600 sec	0.000 % @Temperature 3000 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
CaO	0.040 %	0.040 %	
HfO2	1.0 - 2.0 %	1.0 - 2.0 %	
Na2O	0.020 %	0.020 %	
SiO2	0.22 %	0.22 %	
Y2O3	<= 0.0010 %	<= 0.0010 %	
ZrO2	>= 97 %	>= 97 %	

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