

Zircar Zirconia ZG Low Mass Zirconia Grog Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Zirconium Oxide

Material Notes:

Zircar Zirconia Low Mass Grog Type ZG is high fired, fibrous yttria-stabilized zirconia particles, ideally suited for thermal insulation under conditions of ultra high temperatures. Type ZG exhibits exceptional resistance to oxidizing and reducing atmospheres at high temperatures. Zirconia, however, loses a small amount of oxygen in inert and reducing atmospheres and in vacuum at very high temperatures. This results in a color change from white to gray; while most other properties remain essentially unchanged and the insulation effectiveness is not impaired. Type ZG Grog offers lower thermal conductivity and specific heat than conventional dense grogs. This makes it useful for crystal growth and glass melting furnace insulation applications. Type ZG contains no organic binders and will produce no smoke or odor when heated. ZG Grog will conduct electricity at elevated temperatures. Type ZG Grog is available in two standard particle size ranges. Type ZG-1 has a Tyler mesh size of -3 1/2 to +8 (5.7mm to 2.4mm) Type ZG-2 has a Tyler mesh size of -8 to +14 (2.4mm to 1.2mm). Features: High Temperature Stability to 2200°C Low Thermal Conductivity Highly Refractory Excellent Thermal Shock Resistance No Outgassing Two Particle Size Ranges are Offered Available 'Off the Shelf' Application Information: ZG Grog is used as insulation and crucible support in crystal growing furnaces. ZG Grog is used as insulation for glass melting furnaces. ZG Grog is used as bulk fill insulation. Information provided by Zircar Zirconia.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Zirconia-ZG-Low-Mass-Zirconia-Grog-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.880 g/cc	0.0318 lb/in ³	
Porosity	70 %	70 %	
Outgassing - Total Mass Loss	0.00 %	0.00 %	

Thermal Properties	Metric	English	Comments
Melting Point	2590 °C	4690 °F	
Maximum Service Temperature, Air	2200 °C	3990 °F	
Shrinkage	0.000 %	0.000 %	
	@Temperature 1650 °C, Time 3600 sec	@Temperature 3000 °F, Time 1.00 hour	
	2.00 %	2.00 %	
	@Temperature 2000 °C, Time 1800 sec	@Temperature 3630 °F, Time 0.500 hour	

Component Elements Properties	Metric	English	Comments
HfO ₂	1.0 - 2.0 %	1.0 - 2.0 %	
Y ₂ O ₃	10 %	10 %	

Component Elements Properties	Metric 	English 	Comments
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