Zircar Ceramics ASH Alumina-Silica Insulation

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

ZIRCAR Ceramics Alumina-Silica Insulation Type ASH is one of the first alumina-silica products produced by ZIRCAR. Made of bulk fiber and inorganic alumina binders Type ASH is uniform throughout its thickness and contains no organic materials. It is useful to temperatures of 1260°C (2300°F). Information provided by Zircar Ceramics.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zircar-Ceramics-ASH-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.320 g/cc	0.0116 lb/in³	

Mechanical Properties	Metric	English	Comments
Flexural Strength	0.250 MPa	36.3 psi	Parallel to thickness
Compressive Yield Strength	0.100 MPa	14.5 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
CTE, linear	3.50 µm/m-°C @Temperature 20.0 - 500 °C	1.94 µin/in-°F @Temperature 68.0 - 932 °F	
Thermal Conductivity	0.0700 W/m-K @Temperature 300 °C	0.486 BTU-in/hr-ft²-°F @Temperature 572 °F	ASTM C177-76
	0.110 W/m-K @Temperature 600 °C	0.763 BTU-in/hr-ft²-°F @Temperature 1110 °F	ASTM C177-76
	0.140 W/m-K @Temperature 800 °C	0.972 BTU-in/hr-ft²-°F @Temperature 1470 °F	ASTM C177-76
	0.200 W/m-K @Temperature 1100 °C	1.39 BTU-in/hr-ft²-°F @Temperature 2010 °F	ASTM C177-76
Melting Point	1900 °C	3450 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	2.00 % @Temperature 1100 °C, Time 86400 sec	2.00 % @Temperature 2010 °F, Time 24.0 hour	Perpendicular to Thickness
	4.00 %	4.00 %	

Thermal Properties	Metric	English	Comments
	@Temperature 1400 °C, Time 86400 sec	@Temperature 2550 °F, Time 24.0 hour	Perpendicular to Thickness

Component Elements Properties	Metric	English	Comments
Al2O3	66 %	66 %	
SiO2	34 %	34 %	

Descriptive Properties	Value	Comments
Bond	Alumina	
Color	White	

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