

Zircar Ceramics ECO-1200A Alumina-Silica Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

This utility grade board is produced with or without organic binder. Useful to temperatures of 1260°C (2300°F) ECO-1200 is part of hundreds of different thermal process systems. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ECO-1200A-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.310 g/cc	0.0112 lb/in ³	
Loss On Ignition	5.0 %	5.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000660 GPa	0.0957 ksi	As Received, Parallel to thickness
	0.000230 GPa @Temperature 760 °C, Time 86400 sec	0.0334 ksi @Temperature 1400 °F, Time 24.0 hour	Parallel to Thickness
Compressive Yield Strength	0.170 MPa	24.7 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0550 W/m-K	0.382 BTU-in/hr-ft ² -°F	Parallel to Thickness
	@Temperature 200 °C	@Temperature 392 °F	
	0.0550 W/m-K	0.382 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.110 W/m-K	0.763 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.205 W/m-K	1.42 BTU-in/hr-ft ² -°F	Parallel to Thickness
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1200 °C	2190 °F	
Shrinkage	0.500 %	0.500 %	Perpendicular to Thickness
	@Temperature 760 °C, Time 86400 sec	@Temperature 1400 °F, Time 24.0 hour	
	2.50 %	2.50 %	
			Parallel to Thickness

Thermal Properties	@Temperature 1000 °C, Metric Time 86400 sec	@Temperature 1830 °F, English Time 24.0 hour	Comments
	3.50 %	3.50 %	Perpendicular to Thickness
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	33 %	33 %	
Other	1.0 %	1.0 %	Other Metal Oxides
	5.0 %	5.0 %	Organic Content
SiO2	61 %	61 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	27.0 kV/in	

Descriptive Properties	Value	Comments
Color	Off White	

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