

Zircar Ceramics AXHTM Alumina-Silica Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

ZIRCAR Alumina Silica Insulation Type AXL and Type AXHTM are inorganically bound insulation boards typified by their rigid outer surfaces and unbound interiors. They offer low thermal conductivity and excellent thermal shock resistance. AXL is designed for use to 1260°C (2300°F), AXHTM is useful to 1427°C (2600°F). Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-AXHTM-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Bulk Density	0.260 g/cc	0.00939 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 15	>= 15	ASTM 02240
Flexural Strength	0.140 MPa	20.3 psi	Parallel to thickness
Compressive Yield Strength	0.0300 MPa	4.35 psi	at 10% Compression, Parallel to thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0800 W/m-K	0.555 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	0.140 W/m-K	0.972 BTU-in/hr-ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
	0.260 W/m-K	1.80 BTU-in/hr-ft ² -°F	
	@Temperature 1100 °C	@Temperature 2010 °F	
Maximum Service Temperature, Air	1427 °C	2601 °F	
Shrinkage	0.750 %	0.750 %	Perpendicular to Thickness
	@Temperature 1200 °C, Time 86400 sec	@Temperature 2190 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	59 %	59 %	
SiO ₂	41 %	41 %	

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