

Zircar Ceramics APA-1 Alumina Paper

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

ZIRCAR Alumina Papers are uniform structures made principally of alumina fiber. APA-1 is a strong, flexible material with fibers held together with organic binder that is available in roll or sheet form. Applications include thermal insulation in low mass furnaces and thermal process systems operating to 1650°C (3002°F) high temperature gaskets and seals, separator in multifoil vacuum furnace insulation systems, expansion joint insulation, backup thermal insulation in molten metal troughs, furnaces and thermal process systems operating to high temperatures, and parting agent and barrier layer in brazing, heat-treating and metal forming processes. Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-APA-1-Alumina-Paper.php

Physical Properties	Metric	English	Comments
Density	0.150 g/cc	0.00542 lb/in ³	
	@Thickness 1.02 mm	@Thickness 0.0400 in	
	0.150 g/cc	0.00542 lb/in ³	
	@Thickness 3.05 mm	@Thickness 0.120 in	
	0.200 g/cc	0.00723 lb/in ³	
	@Thickness 0.508 mm	@Thickness 0.0200 in	

Mechanical Properties	Metric	English	Comments
Tear Strength	0.456 kN/m	2.60 pli	Parallel to Thickness, width
	0.202 kN/m	1.15 pli	
	@Thickness 0.508 mm	@Thickness 0.0200 in	
	0.263 kN/m	1.50 pli	
	@Thickness 1.02 mm	@Thickness 0.0400 in	
	0.806 kN/m	4.60 pli	
	@Thickness 3.05 mm	@Thickness 0.120 in	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	
	@Temperature 538 °C	@Temperature 1000 °F	
	0.260 W/m-K	1.80 BTU-in/hr-ft ² -°F	
	@Temperature 1370 °C	@Temperature 2500 °F	

Thermal Properties	1650 °C Metric	3000 °F English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	79 %	79 %	
	@Thickness 1.02 - 3.05 mm	@Thickness 0.0400 - 0.120 in	
	85 %	85 %	
	@Thickness 0.508 mm	@Thickness 0.0200 in	
Other	2.0 %	2.0 %	Other Oxides
	@Thickness 0.508 mm	@Thickness 0.0200 in	
	<= 4.0 %	<= 4.0 %	Other Oxides
	@Thickness 1.02 - 3.05 mm	@Thickness 0.0400 - 0.120 in	
	6.0 %	6.0 %	Organic
	@Thickness 0.508 mm	@Thickness 0.0200 in	
	8.0 %	8.0 %	Organic
	@Thickness 1.02 - 3.05 mm	@Thickness 0.0400 - 0.120 in	
SiO2	7.0 %	7.0 %	
	@Thickness 0.508 mm	@Thickness 0.0200 in	
	9.0 %	9.0 %	
	@Thickness 1.02 - 3.05 mm	@Thickness 0.0400 - 0.120 in	

Descriptive Properties	Value	Comments
Color	White	
Form	Flexible	
Type of Binder	Organic	
Weight	100 g/m ²	0.02" Thickness
	150 g/m ²	0.04" Thickness
	450 g/m ²	0.12" Thickness

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