

Zircar Refractory Composites ASPA-1 Alumina-Silica Fiber Paper

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

ASPA-1 is a premium grade, lightweight refractory material made from high purity alumina-silica fibers formed into highly flexible sheets. This alumina-silica fiber paper exhibits very low thermal conductivity and is designed for use in applications where purity, cracking resistance, high strength and resistance to heat are paramount. Due to its exceptional resistance to heat flow for its thickness, it provides maximum thermal resistance where space is at a premium. This material is virtually shot free and is the cleanest refractory paper available. It is ideal for applications up to 1260°C (2300°F). Type ASPA-1 contains an organic binder to provide increased handling strength at room temperature. It possesses excellent chemical stability and resists attack from most corrosive agents. Because of its high purity chemistry, it resists oxidation and reduction. If it becomes wet due to water, steam or oil, its physical and thermal properties will return upon drying. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-ASPA-1-Alumina-Silica-Fiber-Paper.php

Physical Properties	Metric	English	Comments
Density	0.140 g/cc	0.00506 lb/in ³	
Loss On Ignition	6.0 - 10 %	6.0 - 10 %	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	
	0.0800 W/m-K	0.555 BTU-in/hr-ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
	0.140 W/m-K	0.972 BTU-in/hr-ft ² -°F	
	@Temperature 871 °C	@Temperature 1600 °F	
	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	
	@Temperature 1100 °C	@Temperature 2010 °F	
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	47 %	47 %	
Other	1.0 %	1.0 %	
SiO2	52 %	52 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Strength	2.17 kV/mm	55.0 kV/in	

Descriptive Properties	Value	Comments
Color	White	
Fiber Index, %	70	
Mullen Burst, psi	27	
Tensile Strength, g/in	9300	
Type of Binder	Organic	

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