

Zircar Refractory Composites RS-101 Refractory Sheet

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

ZRCI Refractory Sheet Type RS-101 is a ceramic fiber reinforced structural alumina product with useful properties to 2300°F (1260°C). It retains strength and utility to levels far exceeding maximum use temperatures of reinforced plastics and asbestos-cement replacements. Type RS-101 not only makes an excellent replacement for rigid asbestos containing products, but also may be employed at much higher temperatures as well. Type RS-101 is 100% inorganic, non-flammable and contains no asbestos. Its high Al₂O₃ content makes it resistant to many environments including no outgassing on heating, is not brittle, and may be cut and machined with standard tooling. Type RS-101 is available in standard and custom size cylinders. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-101-Refractory-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0165 GPa	2.39 ksi	parallel to thickness

Thermal Properties	Metric	English	Comments
CTE, linear	4.40 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	2.44 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	0.200 %	0.200 %	24 hr. soak at 400°C, perpendicular to thickness
	@Time 86400 sec	@Time 24.0 hour	
	0.400 %	0.400 %	24 hr. soak at 600°C, perpendicular to thickness
	@Time 86400 sec	@Time 24.0 hour	
	2.00 %	2.00 %	24 hr. soak at 1100°C, perpendicular to thickness
	@Time 86400 sec	@Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	65 %	65 %	
Other	14 %	14 %	
SiO ₂	21 %	21 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.20e+11 ohm-cm	7.20e+11 ohm-cm	ASTM D257
Surface Resistance	2.30e+11 ohm	2.30e+11 ohm	ASTM D257
Dielectric Strength	2.17 kV/mm	55.0 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Color	White to buff	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China