

## Zircar Refractory Composites RS-A Refractory Sheet

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

ZRCI's Refractory Sheet Type RS-A Moldable is a tough ceramic fiber reinforced insulation which contains no asbestos. Developed as an asbestos board replacement for induction coil liners and molten metal transport, Refractory Sheet Type RS-A Moldable is ideally suited for a wide range of high temperature, high thermal shock applications. Refractory Sheet Type RS-A Moldable is a wet blanket that can be easily formed into a wide variety of simple and complex shapes. Drying results in a strong rigid shape that can be rewet to restore the original moldability. Baking irreversibly removes the moldability, leaving Refractory Sheet Type RS-A Moldable unaffected by moisture. Refractory Sheet Type RS-A Moldable can be frozen and thawed repeatedly with no loss in moldability or other properties. Refractory Sheet Type RS-A Moldable can be dried rapidly, either with a torch or by applying directly to a hot furnace, to make quick repairs of cracks in, or to replace missing, refractories. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Refractory-Composites-RS-A-Refractory-Sheet.php](http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-A-Refractory-Sheet.php)

Physical Properties	Metric	English	Comments
Density	1.50 - 1.70 g/cc	0.0542 - 0.0614 lb/in <sup>3</sup>	
Solids Content	65 %	65 %	
Porosity	40 %	40 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00345 GPa	0.500 ksi	
	0.00550 GPa	0.798 ksi	
	@Temperature 1000 °C, Time 57600 sec	@Temperature 1830 °F, Time 16.0 hour	
Compressive Yield Strength	69.0 MPa	10000 psi	10% compression

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.047 J/g-°C	0.2502 BTU/lb-°F	
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ft <sup>2</sup> -°F	perpendicular to thickness
Maximum Service Temperature, Air	1450 °C	2640 °F	
Shrinkage	<= 1.0 %	<= 1.0 %	drying, perpendicular to thickness
	16 - 20 %	16 - 20 %	drying, parallel to thickness
	4.00 %	4.00 %	
	@Temperature 1200 °C,	@Temperature 2190 °F,	linear perpendicular to thickness

Thermal Properties	Time 57600 sec Metric	Time 16.0 hour English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	90 - 92 %	90 - 92 %	
SiO2	6.0 - 10 %	6.0 - 10 %	

  

Descriptive Properties	Value	Comments
Color	White	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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