

## Zircar Refractory Composites RS-3000 ALUMINA FELT

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

ZRCI Alumina Felt Type RS-3000 is 97% high purity alumina fiber, ceramic felt with less than 1% shot. Type RS-3000 is a strong, flexible material with fibers held together with an organic binder. It is available in roll, sheet or custom die-cut parts. Type RS-3000 is ideal for application temperatures as high as 1650°C (3002°F). Type RS-3000 high alumina content is ideal for high vacuum, reducing atmospheres and other applications where silica cannot be tolerated, such as setters for P/M ,MIM and high temperature fuel cell applications. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Refractory-Composites-RS-3000-ALUMINA-FELT.php](http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-3000-ALUMINA-FELT.php)

Physical Properties	Metric	English	Comments
Density	0.140 g/cc	0.00506 lb/in <sup>3</sup>	
Loss On Ignition	5.0 %	5.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	0.0300 MPa	4.35 psi	fired
	0.270 MPa	39.2 psi	as received

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0800 W/m-K	0.555 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
	@Temperature 500 °C	@Temperature 932 °F	
	0.170 W/m-K	1.18 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
	@Temperature 1100 °C	@Temperature 2010 °F	
	0.320 W/m-K	2.22 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
	@Temperature 1600 °C	@Temperature 2910 °F	
Melting Point	>= 2000 °C	>= 3630 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	97 %	97 %	
Other	<= 0.50 %	<= 0.50 %	
SiO2	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
Color	White	
Fiber Index, %	99	
Mullen Burst, psi	27	
Type of Binder	Organic	

## Contact Songhan Plastic Technology Co.,Ltd.

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