

## Zircar Refractory Composites RS-SI SILICA MOLDABLE

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

ZIRCAR Silica Moldable Type RS-SI Moldable is a wet blanket that is a combination of high purity amorphous silica fibers and inorganic silica binder. The fibers are 6-9 um in diameter and are considered non-respirable. Upon drying, Type RS-SI Moldable becomes a rigid structure with useful properties to temperatures of 1100°C (2012°F). Type RS-SI Moldable exhibits good wet handleability. It is easily cut with scissors or a knife and can be applied directly to equipment with complex contours. It can also be used to fabricate flat sheets or boards. Drying can be accomplished in an oven, with a hot air gun or torch, or by exposure to heat in the application. Drying results in a strong, rigid, low density shape that can be re-wet to restore the original moldability. Baking irreversibly removes the moldability, leaving Refractory Sheet Type RS-SI Moldable unaffected by moisture. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.640 g/cc	0.0231 lb/in <sup>3</sup>	
Solids Content	53 %	53 %	
Filament Diameter	3.0 - 4.0 µm	3.0 - 4.0 µm	

Thermal Properties	Metric	English	Comments
Melting Point	1698 °C	3088 °F	
Maximum Service Temperature, Air	1200 °C	2190 °F	
Shrinkage	0.000 - 1.00 % @Temperature 102 °C	0.000 - 1.00 % @Temperature 216 °F	dried at 105°C
	5.00 - 7.00 % @Temperature 1010 °C, Time 86400 sec	5.00 - 7.00 % @Temperature 1850 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
SiO <sub>2</sub>	>= 99 %	>= 99 %	

Descriptive Properties	Value	Comments
Color	White	

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