

## Zircar Refractory Composites ZIRCAL-95 Refractory Board

Category : Ceramic

### Material Notes:

Type ZIRCAL-95 Refractory Board is produced from a combination of natural organic fibers and inert reinforcing fillers in a high density calcium silicate hydrate matrix. Designed as a substitute for asbestos cement boards, ZIRCAL-95 is useful as structural and electrical insulation in applications with temperatures to 1100°C(2000°F). ZIRCAL-95's surface is sanded smooth. It has a uniform consistency making it a useful source for custom machined insulating parts. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Refractory-Composites-ZIRCAL-95-Refractory-Board.php](http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-ZIRCAL-95-Refractory-Board.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0180 GPa	2.61 ksi	parallel to thickness
Compressive Yield Strength	450 MPa	65300 psi	at 5% deformation, parallel to thickness

Thermal Properties	Metric	English	Comments
CTE, linear	3.10 $\mu\text{m}/\text{m}\cdot\text{°C}$	1.72 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 700 °C	@Temperature 68.0 - 1290 °F	
	5.50 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.06 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
	@Temperature 400 °C	@Temperature 752 °F	
	0.290 W/m-K	2.01 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
	@Temperature 600 °C	@Temperature 1110 °F	
	0.310 W/m-K	2.15 BTU-in/hr-ft <sup>2</sup> -°F	parallel to thickness
	@Temperature 200 °C	@Temperature 392 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	
Shrinkage	0.130 %	0.130 %	Linear reheat (perpendicular to thickness)
	@Temperature 650 °C, Time 43200 sec	@Temperature 1200 °F, Time 12.0 hour	
	0.500 %	0.500 %	

Thermal Properties	Metric	English	Comments
	@ Temperature 1050 °C, Time 43200 sec	@ Temperature 1920 °F, Time 12.0 hour	Linear reheat (perpendicular to thickness)

Component Elements Properties	Metric	English	Comments
Other	<= 4.0 %	<= 4.0 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.52e+12 ohm-cm	4.52e+12 ohm-cm	ASTM D257
Dielectric Strength	2.40 kV/mm	61.0 kV/in	ASTM D495
Arc Resistance	314 sec	314 sec	ASTM D495

Processing Properties	Metric	English	Comments
Moisture Content	1.0 %	1.0 %	

Descriptive Properties	Value	Comments
CaSiO3, %	96	

## 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