

## Zircar Ceramics AS-CEM Alumina-Silica Cement

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide , Other Engineering Material , Ceramic/Metallic Coating

### Material Notes:

Type AS-CEM Alumina-Silica Cement is a high temperature resistant cement useful for creating a hard coating on the surfaces of ZIRCAR® Alumina-Silica fibrous ceramic products or other porous insulating Materials. It has useful properties to 1260°C (2300°F). Information provided by Zircar Ceramics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Ceramics-AS-CEM-Alumina-Silica-Cement.php](http://www.lookpolymers.com/polymer_Zircar-Ceramics-AS-CEM-Alumina-Silica-Cement.php)

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.00 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1260 $^{\circ}\text{C}$	2300 $^{\circ}\text{F}$	
Shrinkage	3.20 %	3.20 %	
	@Temperature 1260 $^{\circ}\text{C}$ , Time 86400 sec	@Temperature 2300 $^{\circ}\text{F}$ , Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	37.2 %	37.2 %	
Fe2O3	0.70 %	0.70 %	
MgO	0.30 %	0.30 %	
Na2O	0.70 %	0.70 %	
Other	0.60 %	0.60 %	
SiO2	59.1 %	59.1 %	
TiO2	1.4 %	1.4 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.54 kV/mm	39.0 kV/in	

Descriptive Properties	Value	Comments
Color	White	

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