

## Zircar Ceramics SALI Alumina Insulation

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

SALI has been serving 1700°C low mass furnace users longer than any other alumina fiber board available today. SALI is a premium grade rigid fiber board with superior hot strength. Information provided by Zircar Ceramics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Ceramics-SALI-Alumina-Insulation.php](http://www.lookpolymers.com/polymer_Zircar-Ceramics-SALI-Alumina-Insulation.php)

| Physical Properties | Metric     | English                   | Comments |
|---------------------|------------|---------------------------|----------|
| Density             | 0.480 g/cc | 0.0173 lb/in <sup>3</sup> |          |
| Open Porosity       | 84 %       | 84 %                      |          |

| Mechanical Properties      | Metric   | English | Comments                                  |
|----------------------------|----------|---------|-------------------------------------------|
| Flexural Strength          | 2.07 MPa | 300 psi | Parallel to thickness                     |
| Compressive Yield Strength | 1.31 MPa | 190 psi | at 10% Compression, Parallel to thickness |

| Thermal Properties               | Metric                      | English                            | Comments                                                                                                   |
|----------------------------------|-----------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------|
| CTE, linear                      | 8.00 µm/m-°C                | 4.44 µin/in-°F                     |                                                                                                            |
|                                  | @Temperature 20.0 - 1100 °C | @Temperature 68.0 - 2010 °F        |                                                                                                            |
| Specific Heat Capacity           | 1.05 J/g-°C                 | 0.250 BTU/lb-°F                    |                                                                                                            |
| Thermal Conductivity             | 0.200 W/m-K                 | 1.39 BTU-in/hr-ft <sup>2</sup> -°F | Parallel to Thickness; ASTM C177-76                                                                        |
|                                  | @Temperature 400 °C         | @Temperature 752 °F                |                                                                                                            |
|                                  | 0.310 W/m-K                 | 2.15 BTU-in/hr-ft <sup>2</sup> -°F | Parallel to Thickness; ASTM C177-76                                                                        |
|                                  | @Temperature 800 °C         | @Temperature 1470 °F               |                                                                                                            |
|                                  | 0.390 W/m-K                 | 2.71 BTU-in/hr-ft <sup>2</sup> -°F | Parallel to Thickness; ASTM C177-76                                                                        |
|                                  | @Temperature 1400 °C        | @Temperature 2550 °F               |                                                                                                            |
| Melting Point                    | 1870 °C                     | 3400 °F                            |                                                                                                            |
| Maximum Service Temperature, Air | 1700 °C                     | 3090 °F                            |                                                                                                            |
| Softening Point                  | 1100 °C                     | 2010 °F                            | Temperature sample yields under load of push rod in CTE determination                                      |
| Shrinkage                        | 2.00 %                      | 2.00 %                             | SAG/Distortion, 6in. (152mm) x 1in. (25.4mm) x 1in. (25.4mm), 5in. (127mm) Span, % after 24 hrs. at 1650°C |

| Thermal Properties | Metric                                  | English                                 | Comments                   |
|--------------------|-----------------------------------------|-----------------------------------------|----------------------------|
|                    | @Temperature 1650 °C,<br>Time 86400 sec | @Temperature 3000 °F,<br>Time 24.0 hour | Perpendicular to Thickness |
|                    | 3.00 %                                  | 3.00 %                                  |                            |
|                    | @Temperature 1700 °C,<br>Time 86400 sec | @Temperature 3090 °F,<br>Time 24.0 hour | Perpendicular to Thickness |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Al2O3                         | 80 %   | 80 %    |          |
| SiO2                          | 20 %   | 20 %    |          |

| Descriptive Properties | Value  | Comments |
|------------------------|--------|----------|
| Bond                   | Silica |          |
| Color                  | White  |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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