

## Sharadaa Ceramics REFCAST ULCC90 Low Cement Castables

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: We bring to our clients a range of Low Cement Castables, that are available in varied alumina content and service range. Designed for abrasion resistance application, these are widely used in furnaces such as ladle back up lining, sintering furnace roof and soaking pit covers. Information provided by Sharadaa Ceramics Pvt. Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sharadaa-Ceramics-REFCAST-ULCC90-Low-Cement-Castables.php](http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFCAST-ULCC90-Low-Cement-Castables.php)

| Physical Properties | Metric          | English                     | Comments                    |
|---------------------|-----------------|-----------------------------|-----------------------------|
| Bulk Density        | >= 3.00 g/cc    | >= 0.108 lb/in <sup>3</sup> | Dried at 110 <sup>o</sup> C |
| Grain Size          | <= 6000 $\mu$ m | <= 6000 $\mu$ m             |                             |

| Mechanical Properties | Metric                           | English                          | Comments      |
|-----------------------|----------------------------------|----------------------------------|---------------|
| Modulus of Rupture    | 0.0118 GPa                       | 1.71 ksi                         |               |
|                       | @Temperature 110 <sup>o</sup> C  | @Temperature 230 <sup>o</sup> F  |               |
|                       | 0.0196 GPa                       | 2.84 ksi                         |               |
|                       | @Temperature 1100 <sup>o</sup> C | @Temperature 2010 <sup>o</sup> F |               |
|                       | 0.0255 GPa                       | 3.70 ksi                         |               |
|                       | @Temperature 1500 <sup>o</sup> C | @Temperature 2730 <sup>o</sup> F |               |
| Compressive Strength  | 68.6 MPa                         | 9960 psi                         | Cold Crushing |
|                       | @Temperature 110 <sup>o</sup> C  | @Temperature 230 <sup>o</sup> F  |               |
|                       | 108 MPa                          | 15600 psi                        | Cold Crushing |
|                       | @Temperature 1100 <sup>o</sup> C | @Temperature 2010 <sup>o</sup> F |               |
|                       | 118 MPa                          | 17100 psi                        | Cold Crushing |
|                       | @Temperature 1500 <sup>o</sup> C | @Temperature 2730 <sup>o</sup> F |               |
|                       | 19.6 MPa                         | 2840 psi                         | Cold Crushing |
|                       | @Time 86400 sec                  | @Time 24.0 hour                  |               |

| Thermal Properties | Metric     | English   | Comments |
|--------------------|------------|---|----------|
|                    | 2.03 W/m-K | 14.1 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F |          |

| Thermal Conductivity             | Metric                                  | English                                     | Comments |
|----------------------------------|---|---|----------|
| Thermal Properties               | @Temperature 400 Â°C,<br>Time 10800 sec | @ Temperature 752 Â°F,<br>Time 3.00 hour    |          |
|                                  | 2.09 W/m-K                              | 14.5 BTU-in/hr-ftÂ²-<br>Â°F                 |          |
|                                  | @Temperature 600 Â°C,<br>Time 10800 sec | @Temperature 1110<br>Â°F,<br>Time 3.00 hour |          |
|                                  | 2.15 W/m-K                              | 14.9 BTU-in/hr-ftÂ²-<br>Â°F                 |          |
|                                  | @Temperature 800 Â°C,<br>Time 10800 sec | @Temperature 1470<br>Â°F,<br>Time 3.00 hour |          |
| Maximum Service Temperature, Air | 1750 Â°C                                | 3180 Â°F                                    |          |

| Component Elements Properties | Metric    | English   | Comments |
|-------------------------------|-----------|-----------|----------|
| Al2O3                         | >= 90 %   | >= 90 %   |          |
| Fe2O3                         | <= 0.60 % | <= 0.60 % |          |

| Descriptive Properties  | Value       | Comments            |
|-------------------------|-------------|---------------------|
| Permanent Linear Change | -0.2 - 0.2% | 800Â°C              |
|                         | -0.3 - 0.3% | 1100Â°C             |
|                         | -0.8 - 0.8% | 1500Â°C             |
| Refractoriness          | >1820Â°C    |                     |
| Thermal Expansion       | 0.9         | 1000Â°C, Reversible |
| Water Required to Mix   | 4.5 - 5%    |                     |

## Contact Songhan Plastic Technology Co.,Ltd.

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