

## Sharadaa Ceramics REFCAST K High Alumina Castables

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: We bring to our clients a qualitative range of Dense Alumina Castables that are conventional castable of medium purity. These castables cater to the application needs of various industries such as steel, cement, petrochemical and non-ferrous industries. Information provided by Sharadaa Ceramics Pvt. Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sharadaa-Ceramics-REFCAST-K-High-Alumina-Castables.php](http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFCAST-K-High-Alumina-Castables.php)

Physical Properties	Metric	English	Comments
Bulk Density	>= 2.20 g/cc	>= 0.0795 lb/in <sup>3</sup>	Dried at 110 <sup>o</sup> C
Grain Size	<= 5000 $\mu$ m	<= 5000 $\mu$ m	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00294 GPa	0.426 ksi	
	@Temperature 1100 $\text{\AA}^{\circ}\text{C}$	@Temperature 2010 $\text{\AA}^{\circ}\text{F}$	
	0.00637 GPa	0.924 ksi	
	@Temperature 110 $\text{\AA}^{\circ}\text{C}$	@Temperature 230 $\text{\AA}^{\circ}\text{F}$	
Compressive Strength	0.00883 GPa	1.28 ksi	
	@Temperature 1500 $\text{\AA}^{\circ}\text{C}$	@Temperature 2730 $\text{\AA}^{\circ}\text{F}$	
	29.4 MPa	4270 psi	Cold Crushing
	@Temperature 1100 $\text{\AA}^{\circ}\text{C}$	@Temperature 2010 $\text{\AA}^{\circ}\text{F}$	
	39.2 MPa	5690 psi	Cold Crushing
	@Temperature 110 $\text{\AA}^{\circ}\text{C}$	@Temperature 230 $\text{\AA}^{\circ}\text{F}$	
	53.9 MPa	7820 psi	Cold Crushing
	@Temperature 1500 $\text{\AA}^{\circ}\text{C}$	@Temperature 2730 $\text{\AA}^{\circ}\text{F}$	
	19.6 MPa	2840 psi	Cold Crushing
	@Time 86400 sec	@Time 24.0 hour	

Thermal Properties	Metric	English	Comments
	0.930 W/m-K	6.45 BTU-in/hr-ft <sup>2</sup> - $\text{\AA}^{\circ}\text{F}$	

Thermal Conductivity Thermal Properties	Metric @Temperature 400 Â°C, Time 10800 sec	English @ Temperature 752 Â°F, Time 3.00 hour	Comments
	0.988 W/m-K	6.86 BTU-in/hr-ftÂ²- Â°F	
	@Temperature 600 Â°C, Time 10800 sec	@Temperature 1110 Â°F, Time 3.00 hour	
	1.10 W/m-K	7.63 BTU-in/hr-ftÂ²- Â°F	
	@Temperature 800 Â°C, Time 10800 sec	@Temperature 1470 Â°F, Time 3.00 hour	
Maximum Service Temperature, Air	1600 Â°C	2910 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 60 %	>= 60 %	
Fe2O3	<= 1.0 %	<= 1.0 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	<-0.12	800Â°C
	<-0.19	1100Â°C
	<-1.2	1500Â°C
Refractoriness	1680Â°C	
Thermal Expansion	0.6	Reversible
Water Required to Mix	9-11%	

## Contact Songhan Plastic Technology Co.,Ltd.

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