

## Sharadaa Ceramics REFCAST A 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-A-High-Alumina-Castables.php](http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFCAST-A-High-Alumina-Castables.php)

Physical Properties	Metric	English	Comments
Bulk Density	>= 2.80 g/cc	>= 0.101 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	0.00441 GPa	0.640 ksi	
	@Temperature 1100 $\text{^{\circ}}$ C	@Temperature 2010 $\text{^{\circ}}$ F	
	0.00932 GPa	1.35 ksi	
	@Temperature 110 $\text{^{\circ}}$ C	@Temperature 230 $\text{^{\circ}}$ F	
Compressive Strength	0.0108 GPa	1.57 ksi	
	@Temperature 1500 $\text{^{\circ}}$ C	@Temperature 2730 $\text{^{\circ}}$ F	
	39.2 MPa	5690 psi	Cold Crushing
	@Temperature 1100 $\text{^{\circ}}$ C	@Temperature 2010 $\text{^{\circ}}$ F	
	63.7 MPa	9250 psi	Cold Crushing
	@Temperature 110 $\text{^{\circ}}$ C	@Temperature 230 $\text{^{\circ}}$ F	
63.7 MPa	9250 psi	Cold Crushing	
@Temperature 1500 $\text{^{\circ}}$ C	@Temperature 2730 $\text{^{\circ}}$ F		
24.5 MPa	3560 psi	Cold Crushing	
@Time 86400 sec	@Time 24.0 hour		

Thermal Properties	Metric	English	Comments
	1.28 W/m-K	8.88 BTU-in/hr-ft <sup>2</sup> - $\text{^{\circ}}$ F	

Thermal Conductivity Thermal Properties	Metric @Temperature 400 Â°C, Time 10800 sec	English @ Temperature 752 Â°F, Time 3.00 hour	Comments
	1.37 W/m-K	9.51 BTU-in/hr-ftÂ²- Â°F	
	@Temperature 600 Â°C, Time 10800 sec	@Temperature 1110 Â°F, Time 3.00 hour	
	1.45 W/m-K	10.1 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	1750 Â°C	3180 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 90 %	>= 90 %	
Fe2O3	<= 0.80 %	<= 0.80 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	<-0.06	800Â°C
	<-0.08	1500Â°C
	<-0.12	1100Â°C
Refractoriness	1800Â°C	
Thermal Expansion	0.8	Reversible
Water Required to Mix	8-10%	

## Contact Songhan Plastic Technology Co.,Ltd.

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