

## Sharadaa Ceramics REFCAST LC80 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-LC80-Low-Cement-Castables.php](http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFCAST-LC80-Low-Cement-Castables.php)

Physical Properties	Metric	English	Comments
Bulk Density	>= 2.90 g/cc	>= 0.105 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	0.0127 GPa	1.84 ksi	
	@Temperature 110 <sup>o</sup> C	@Temperature 230 <sup>o</sup> F	
	0.0177 GPa	2.57 ksi	
	@Temperature 1100 <sup>o</sup> C	@Temperature 2010 <sup>o</sup> F	
	0.0245 GPa	3.55 ksi	
	@Temperature 1500 <sup>o</sup> C	@Temperature 2730 <sup>o</sup> F	
Compressive Strength	85.3 MPa	12400 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	
	127 MPa	18500 psi	Cold Crushing
	@Temperature 1500 <sup>o</sup> C	@Temperature 2730 <sup>o</sup> F	
	24.5 MPa	3560 psi	Cold Crushing
	@Time 86400 sec	@Time 24.0 hour	

Thermal Properties	Metric	English	Comments
	1.86 W/m-K	12.9 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	

Thermal Properties	Metric	English	Comments
	@ Temperature 800 Â°C, Time 10800 sec	@ Temperature 1470 Â°F, Time 3.00 hour	
	1.92 W/m-K  @ Temperature 400 Â°C, Time 10800 sec	13.3 BTU-in/hr-ftÂ²- Â°F  @ Temperature 752 Â°F, Time 3.00 hour	
	2.03 W/m-K  @ Temperature 600 Â°C, Time 10800 sec	14.1 BTU-in/hr-ftÂ²- Â°F  @ Temperature 1110 Â°F, Time 3.00 hour	
Maximum Service Temperature, Air	1700 Â°C	3090 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 80 %	>= 80 %	
Fe2O3	<= 1.8 %	<= 1.8 %	

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	0.75	1000Â°C, Reversible
Water Required to Mix	4 - 5%	

## Contact Songhan Plastic Technology Co.,Ltd.

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