

## Sharadaa Ceramics REFCAST LC95 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-LC95-Low-Cement-Castables.php](http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFCAST-LC95-Low-Cement-Castables.php)

Physical Properties	Metric	English	Comments
Bulk Density	>= 3.10 g/cc	>= 0.112 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	0.0157 GPa	2.28 ksi	
	@Temperature 110 <sup>o</sup> C	@Temperature 230 <sup>o</sup> F	
	0.0186 GPa	2.70 ksi	
	@Temperature 1100 <sup>o</sup> C	@Temperature 2010 <sup>o</sup> F	
	0.0265 GPa	3.84 ksi	
	@Temperature 1500 <sup>o</sup> C	@Temperature 2730 <sup>o</sup> F	
Compressive Strength	103 MPa	14900 psi	Cold Crushing
	@Temperature 110 <sup>o</sup> C	@Temperature 230 <sup>o</sup> F	
	118 MPa	17100 psi	Cold Crushing
	@Temperature 1100 <sup>o</sup> C	@Temperature 2010 <sup>o</sup> F	
	132 MPa	19200 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
	2.62 W/m-K	18.2 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	

Thermal Conductivity	Metric	English	Comments
Thermal Properties	@Temperature 400 Â°C, Time 10800 sec	@Temperature 752 Â°F, Time 3.00 hour	
	2.67 W/m-K	18.5 BTU-in/hr-ftÂ²- Â°F	
	@Temperature 600 Â°C, Time 10800 sec	@Temperature 1110 Â°F, Time 3.00 hour	
	2.73 W/m-K	18.9 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	1800 Â°C	3270 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 94 %	>= 94 %	
Fe2O3	<= 0.30 %	<= 0.30 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	-0.2 - 0.2%	800Â°C
	-0.3 - 0.3%	1100Â°C
	-0.9 - 0.9%	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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