

Sharadaa Ceramics REFCAST LC45 Low Cement Castables

Category : Ceramic

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-LC45-Low-Cement-Castables.php

Physical Properties	Metric	English	Comments
Bulk Density	>= 2.30 g/cc	>= 0.0831 lb/in ³	Dried at 110Â°C
Grain Size	<= 6000 Åµm	<= 6000 Åµm	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00981 GPa	1.42 ksi	
	@Temperature 110 Â°C	@Temperature 230 Â°F	
	0.0123 GPa	1.78 ksi	
	@Temperature 1100 Â°C	@Temperature 2010 Â°F	
	0.0162 GPa	2.35 ksi	
	@Temperature 1500 Â°C	@Temperature 2730 Â°F	
Compressive Strength	73.5 MPa	10700 psi	Cold Crushing
	@Temperature 110 Â°C	@Temperature 230 Â°F	
	93.2 MPa	13500 psi	Cold Crushing
	@Temperature 1100 Â°C	@Temperature 2010 Â°F	
	108 MPa	15600 psi	Cold Crushing
	@Temperature 1500 Â°C	@Temperature 2730 Â°F	
	19.6 MPa	2840 psi	Cold Crushing
	@Time 86400 sec	@Time 24.0 hour	

Thermal Properties	Metric	English	Comments
	0.976 W/m-K	6.77 BTU-in/hr-ftÂ²-Â°F	

Thermal Conductivity Thermal Properties	Metric @Temperature 400 Â°C, Time 10800 sec	English @ Temperature 752 Â°F, Time 3.00 hour	Comments
	1.22 W/m-K	8.47 BTU-in/hr-ftÂ²- Â°F	
	@Temperature 600 Â°C, Time 10800 sec	@Temperature 1110 Â°F, Time 3.00 hour	
	1.35 W/m-K	9.37 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	1550 Â°C	2820 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	>= 45 %	>= 45 %	
Fe2O3	<= 1.5 %	<= 1.5 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	-0.2 - 0.2%	800Â°C
	-0.3 - 0.3%	1100Â°C
	-1.0 -1.0%	1500Â°C
Refractoriness	>1717Â°C	
Thermal Expansion	0.5	1000Â°C, Reversible
Water Required to Mix	4 - 5%	

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