

Sharadaa Ceramics REFCAST LC60 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-LC60-Low-Cement-Castables.php

Physical Properties	Metric	English	Comments
Bulk Density	>= 2.60 g/cc	>= 0.0939 lb/in ³	Dried at 110 ^o C
Grain Size	<= 6000 μ m	<= 6000 μ m	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0118 GPa	1.71 ksi	
	@Temperature 110 ^o C	@Temperature 230 ^o F	
	0.0147 GPa	2.13 ksi	
	@Temperature 1100 ^o C	@Temperature 2010 ^o F	
	0.0167 GPa	2.42 ksi	
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	
Compressive Strength	78.5 MPa	11400 psi	Cold Crushing
	@Temperature 110 ^o C	@Temperature 230 ^o F	
	93.2 MPa	13500 psi	Cold Crushing
	@Temperature 1100 ^o C	@Temperature 2010 ^o F	
	108 MPa	15600 psi	Cold Crushing
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	
	19.6 MPa	2840 psi	Cold Crushing
	@Time 86400 sec	@Time 24.0 hour	

Thermal Properties	Metric	English	Comments
	1.10 W/m-K	7.63 BTU-in/hr-ft ² - ^o F	

Thermal Conductivity Thermal Properties	Metric @Temperature 400 Â°C, Time 10800 sec	English @ Temperature 752 Â°F, Time 3.00 hour	Comments
	1.28 W/m-K	8.88 BTU-in/hr-ftÂ²- Â°F	
	@Temperature 600 Â°C, Time 10800 sec	@Temperature 1110 Â°F, Time 3.00 hour	
	1.39 W/m-K	9.65 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	<= 1.5 %	<= 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	>1804Â°C	
Thermal Expansion	0.6	1000Â°C, Reversible
Water Required to Mix	4.5 - 5%	

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