

Sharadaa Ceramics REFCAST LC90ABR 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-LC90ABR-Low-Cement-Castables.php

Physical Properties	Metric	English	Comments
Bulk Density	>= 2.90 g/cc	>= 0.105 lb/in ³	Dried at 110 ^o C
Grain Size	<= 10000 μ m	<= 10000 μ m	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0137 GPa	1.99 ksi	
	@Temperature 110 ^o C	@Temperature 230 ^o F	
	0.0177 GPa	2.57 ksi	
	@Temperature 1100 ^o C	@Temperature 2010 ^o F	
	0.0216 GPa	3.13 ksi	
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	
Compressive Strength	108 MPa	15600 psi	Cold Crushing
	@Temperature 110 ^o C	@Temperature 230 ^o F	
	127 MPa	18500 psi	Cold Crushing
	@Temperature 1100 ^o C	@Temperature 2010 ^o F	
	147 MPa	21300 psi	Cold Crushing
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	
	29.4 MPa	4270 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 ² - ^o F	

Thermal Properties	Metric	English	Comments
	@ Temperature 800 Â°C, Time 10800 sec	@ Temperature 1470 Â°F, Time 3.00 hour	
	1.86 W/m-K @ Temperature 400 Â°C, Time 10800 sec	12.9 BTU-in/hr-ftÂ²- Â°F @ Temperature 752 Â°F, Time 3.00 hour	
	1.98 W/m-K @ Temperature 600 Â°C, Time 10800 sec	13.7 BTU-in/hr-ftÂ²- Â°F @ Temperature 1110 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	<= 0.60 %	<= 0.60 %	

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 - 4.5%	

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