

Chosun Refractories HACT-180G High Alumina Castables

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Information provided by Chosun Refractories via Korea Institute of Ceramic Engineering and Technology (KICET).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chosun-Refractories-HACT-180G-High-Alumina-Castables.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.006867 - 0.010791 GPa	0.9960 - 1.5651 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.006867 - 0.010791 GPa	0.9960 - 1.5651 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.007848 - 0.011772 GPa	1.138 - 1.7074 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	24.5 - 29.4 MPa	3560 - 4270 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	29.4 - 34.3 MPa	4270 - 4980 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	34.3 - 44.1 MPa	4980 - 6400 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.047 W/m-K	7.253 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	1.1166 W/m-K	7.7369 BTU-in/hr- ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	1.1748 W/m-K	8.1398 BTU-in/hr- ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1350 °C	2460 °F	
Shrinkage	-0.250 % @Temperature 1350 °C, Time 10800 sec	-0.250 % @Temperature 2460 °F, Time 3.00 hour	
	-0.0600 % @Temperature 110 °C, Time 86400 sec	-0.0600 % @Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	92 %	92 %	

Descriptive Properties	Value	Comments
Installation Method	Spray	
Material Required for Estimating(kg/?)	2,650	

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