

Chosun Refractories HACT-170 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-170-High-Alumina-Castables.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.002943 - 0.006867 GPa	0.4269 - 0.9960 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.002943 - 0.006867 GPa	0.4269 - 0.9960 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.003924 - 0.007848 GPa	0.5691 - 1.138 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.004905 - 0.008829 GPa	0.7114 - 1.281 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	24.5 - 34.3 MPa	3560 - 4980 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	29.4 - 39.2 MPa	4270 - 5690 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.82584 W/m-K	5.7220 BTU-in/hr- ft ² -°F	

Thermal Properties	Metric @Temperature 260 °C	English @ Temperature 500 °F	Comments
	0.89563 W/m-K @Temperature 540 °C	6.2056 BTU-in/hr-ft ² -°F @Temperature 1000 °F	
	0.96542 W/m-K @Temperature 800 °C	6.6892 BTU-in/hr-ft ² -°F @Temperature 1470 °F	
Maximum Service Temperature, Air	1700 °C	3090 °F	limited
Shrinkage	-0.350 % @Temperature 1500 °C, Time 10800 sec	-0.350 % @Temperature 2730 °F, Time 3.00 hour	
	-0.200 % @Temperature 1350 °C, Time 10800 sec	-0.200 % @Temperature 2460 °F, Time 3.00 hour	
	-0.0300 % @Temperature 110 °C, Time 86400 sec	-0.0300 % @Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	65 %	65 %	
SiO2	30 %	30 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Material Required for Estimating(kg/?)	2,350	
Water Required for Casting(%)	9.5	

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