

Chosun Refractories HACT-155 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-155-High-Alumina-Castables.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0024525 - 0.0063765 GPa	0.35571 - 0.92485 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.002943 - 0.006867 GPa	0.4269 - 0.9960 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.002943 - 0.006867 GPa	0.4269 - 0.9960 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
Compressive Strength	14.7 - 24.5 MPa	2130 - 3560 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.74442 W/m-K	5.1579 BTU-in/hr- ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.84910 W/m-K	5.8832 BTU-in/hr- ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.9305 W/m-K	6.447 BTU-in/hr-ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1030 °C	1910 °F	
Shrinkage	-0.0600 % @Temperature 110 °C, Time 86400 sec	-0.0600 % @Temperature 230 °F, Time 24.0 hour	
	0.50 % @Temperature 1350 °C, Time 10800 sec	0.50 % @Temperature 2460 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	48 %	48 %	
SiO2	44 %	44 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Material Required for Estimating(kg/?)	2,150	
Water Required for Casting(%)	11.0	

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