

Chosun Refractories HACT-165G 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-165G-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	
Compressive Strength	0.002943 - 0.006867 GPa	0.4269 - 0.9960 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
Compressive Strength	9.81 - 19.6 MPa	1420 - 2840 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
Compressive Strength	19.6 - 29.4 MPa	2840 - 4270 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.76768 W/m-K	5.3191 BTU-in/hr- ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
Thermal Conductivity	0.82584 W/m-K	5.7220 BTU-in/hr- ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
Thermal Conductivity	0.96542 W/m-K	6.6892 BTU-in/hr- ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	limited
Shrinkage	-0.0600 %	-0.0600 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	1.0 %	1.0 %	

Thermal Properties	Metric	English	Comments
	@ Temperature 1000 °C, Time 10800 sec	@ Temperature 1830 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	80 %	80 %	

Descriptive Properties	Value	Comments
Installation Method	Spray	
Material Required for Estimating(kg/?)	2,350	
Water Required for Casting(%)	13	

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