

Chosun Refractories HACT-150S 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-150S-High-Alumina-Castables.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.002943 - 0.007848 GPa	0.4269 - 1.138 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.003924 - 0.008829 GPa	0.5691 - 1.281 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.003924 - 0.008829 GPa	0.5691 - 1.281 ksi	
	@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	
	29.4 - 39.2 MPa	4270 - 5690 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 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.65137 W/m-K	4.5132 BTU-in/hr- ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.66300 W/m-K	4.5938 BTU-in/hr- ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
Maximum Service Temperature, Air	1500 °C	2730 °F	limited
	-0.400 %	-0.400 %	

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

Component Elements Properties	Metric	English	Comments
Al2O3	48 %	48 %	
SiO2	43 %	43 %	

Descriptive Properties	Value	Comments
Installation Method	Casting,Troweling	
Material Required for Estimating(kg/?)	2,150	
Water Required for Casting(%)	11.5	

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