

Chosun Refractories HACT-180 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-180-High-Alumina-Castables.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.005886 - 0.008829 GPa	0.8537 - 1.281 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.005886 - 0.00981 GPa	0.8537 - 1.42 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	0.005886 - 0.00981 GPa	0.8537 - 1.42 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.007848 - 0.011772 GPa	1.138 - 1.7074 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	29.4 - 39.2 MPa	4270 - 5690 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	34.3 - 39.2 MPa	4980 - 5690 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	34.3 - 39.2 MPa	4980 - 5690 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	44.1 - 53.9 MPa	6400 - 7820 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.0817 W/m-K	7.4951 BTU-in/hr- ft ² -°F	

Thermal Properties	Metric @Temperature 260 °C	English @Temperature 500 °F	Comments
	1.1515 W/m-K @Temperature 540 °C	7.9786 BTU-in/hr-ft ² -°F @Temperature 1000 °F	
	1.2097 W/m-K @Temperature 800 °C	8.3816 BTU-in/hr-ft ² -°F @Temperature 1470 °F	
Maximum Service Temperature, Air	1800 °C	3270 °F	limited
Shrinkage	-0.200 % @Temperature 1500 °C, Time 10800 sec	-0.200 % @Temperature 2730 °F, Time 3.00 hour	
	-0.100 % @Temperature 1350 °C, Time 10800 sec	-0.100 % @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	93 %	93 %	

Descriptive Properties	Value	Comments
Installation Method	Casting	
	Troweling	
Material Required for Estimating(kg/?)	2,850	
Water Required for Casting(%)	8.0	

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