

## Chosun Refractories HACT-165 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-165-High-Alumina-Castables.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-HACT-165-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	
	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	14.7 - 19.6 MPa	2130 - 2840 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	
	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	0.7560 W/m-K	5.238 BTU-in/hr-ft <sup>2</sup> -°F	

Thermal Properties	@Temperature 260 °C Metric	@Temperature 500 °F English	Comments
	0.8724 W/m-K	6.044 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	1.0003 W/m-K	6.9309 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	limited
Shrinkage	-0.400 %	-0.400 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	-0.300 %	-0.300 %	
	@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	58 %	58 %	
SiO2	36 %	36 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Material Required for Estimating(kg/?)	2,250	
Water Required for Casting(%)	10.0	

## Contact Songhan Plastic Technology Co.,Ltd.

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