

Chosun Refractories HSC-18RA Dense and High-Strength Castable, Superdense

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-HSC-18RA-Dense-and-High-Strength-Castable-Superdense.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.01962 GPa	2.846 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.024525 GPa	3.5571 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.027468 GPa	3.9840 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	98.1 MPa	14200 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	108 MPa	15600 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	127 MPa	18500 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1800 °C	3270 °F	limited
Shrinkage	-0.300 %	-0.300 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °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 Component Elements Properties	90 % Metric	90 % English	Comments
CaO	2.0 %	2.0 %	
SiC	5.0 %	5.0 %	

Processing Properties	Metric	English	Comments
Cure Time	120 - 600 min	2.00 - 10.0 hour	Setting Time

Descriptive Properties	Value	Comments
Installation Method	Vibrating	
Material Required for Estimating(kg/?)	3,200	
Water Required for Casting(%)	4.0	

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