

Chosun Refractories HSC-18SC 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-18SC-Dense-and-High-Strength-Castable-Superdense.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.021582 GPa	3.1303 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.02943 GPa	4.269 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.03924 GPa	5.691 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	127 MPa	18500 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	137 MPa	19900 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	177 MPa	25600 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	-0.430 %	-0.430 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	-0.0300 %	-0.0300 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
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Al2O3 Component Elements Properties	93 % Metric	93 % English	Comments
CaO	2.0 %	2.0 %	
SiO2	3.0 %	3.0 %	

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/?)	3,250	
Water Required for Casting(%)	3.7	

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