

Chosun Refractories SFC-90S High-Alumina Castable

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-SFC-90S-High-Alumina-Castable.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.014715 GPa	2.1343 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.021582 GPa	3.1303 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.022563 GPa	3.2725 ksi	
	@Temperature 1400 °C, Time 10800 sec	@Temperature 2550 °F, Time 3.00 hour	
Compressive Strength	78.5 MPa	11400 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	88.3 MPa	12800 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	98.1 MPa	14200 psi	Cold Crushing Strength
	@Temperature 1400 °C, Time 10800 sec	@Temperature 2550 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1800 °C	3270 °F	limited
Shrinkage	-0.0900 %	-0.0900 %	
	@Temperature 1400 °C, Time 10800 sec	@Temperature 2550 °F, Time 3.00 hour	
	-0.0600 %	-0.0600 %	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	-0.0300 %	-0.0300 %	
	@Temperature 110 °C,	@Temperature 230 °F,	

Thermal Properties	Time 86400 sec Metric	Time 24.0 hour English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	87 %	87 %	
SiC	5.0 %	5.0 %	
SiO2	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Installation Method	Self Flowing	
Material Required for Estimating(kg/?)	3,050	
Water Required for Casting(%)	5-5.5	

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