

Chosun Refractories INCT-160 Light-Weight 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-INCT-160-Light-Weight-Castable.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	4.33e-7 - 0.00147 GPa	0.0000628 - 0.213 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.0014715 - 0.0044145 GPa	0.21343 - 0.64028 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.002943 - 0.005886 GPa	0.4269 - 0.8537 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	4.90 - 14.7 MPa	711 - 2130 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	4.90 - 14.7 MPa	711 - 2130 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	9.81 - 19.6 MPa	1420 - 2840 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.60484 W/m-K	4.1908 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.66300 W/m-K	4.5938 BTU-in/hr-ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.72115 W/m-K	4.9967 BTU-in/hr-ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1000 °C	1830 °F	
Shrinkage	-0.0500 % @Temperature 1000 °C, Time 10800 sec	-0.0500 % @Temperature 1830 °F, Time 3.00 hour	
	-0.0300 % @Temperature 110 °C, Time 86400 sec	-0.0300 % @Temperature 230 °F, Time 24.0 hour	
	0.050 % @Temperature 1350 °C, Time 10800 sec	0.050 % @Temperature 2460 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	63 %	63 %	
SiO2	28 %	28 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Main Applications	High temperature furnaces	
Material Required for Estimating (kg/?)	1,500	
Water Required for Casting(%)	20-25	

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