

Chosun Refractories INCT-120N Light-Weight Castable

Category : Ceramic , Oxide , Silicon 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-120N-Light-Weight-Castable.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	3.37e-7 - 0.00147 GPa	0.0000489 - 0.213 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.0004905 - 0.0014715 GPa	0.07114 - 0.21343 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.0014715 - 0.0034335 GPa	0.21343 - 0.49799 ksi	
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
Compressive Strength	4.90 - 9.81 MPa	711 - 1420 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	4.90 - 9.81 MPa	711 - 1420 psi	Cold Crushing Strength
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
	4.90 - 9.81 MPa	711 - 1420 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.3024 W/m-K	2.095 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.3722 W/m-K	2.579 BTU-in/hr-ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.41873 W/m-K	2.9013 BTU-in/hr-ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air			limited

Thermal Properties	1200 °C Metric	2190 °F English	Comments
Shrinkage	-0.0600 %	-0.0600 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.10 %	0.10 %	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	30 %	30 %	
SiO2	53 %	53 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Main Applications	High temperature Low thermal conductivity	
Material Required for Estimating (kg/?)	1,200	
Water Required for Casting(%)	30-40	

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