

Chosun Refractories INCT-100S Light-Weight Castable

Category : Ceramic

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-100S-Light-Weight-Castable.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	1.44e-7 - 0.000491 GPa	0.0000209 - 0.0711 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 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
Compressive Strength	0.981 - 2.94 MPa	142 - 427 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.981 - 2.94 MPa	142 - 427 psi	Cold Crushing Strength
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.1512 W/m-K	1.048 BTU-in/hr-ft ² -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.174 W/m-K	1.21 BTU-in/hr-ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.2443 W/m-K	1.692 BTU-in/hr-ft ² -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	limited
Shrinkage	-0.800 %	-0.800 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °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	30 %	30 %	
SiO2	35 %	35 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Main Applications	Low temperature Various furnaces	
Material Required for Estimating (kg/?)	700	
Water Required for Casting(%)	60-70	

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