

## Chosun Refractories INCT-100N 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-100N-Light-Weight-Castable.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-INCT-100N-Light-Weight-Castable.php)

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	2.41e-7 - 0.00147 GPa	0.0000349 - 0.213 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.000981 - 0.001962 GPa	0.142 - 0.2846 ksi	
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
Compressive Strength	3.92 - 6.86 MPa	569 - 996 psi	Cold Crushing Strength
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
	4.90 - 7.85 MPa	711 - 1140 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.291 W/m-K	2.01 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.3257 W/m-K	2.257 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.3606 W/m-K	2.498 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	limited
Shrinkage	-0.600 %	-0.600 %	
	@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	25 %	25 %	
SiO2	50 %	50 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Main Applications	Low temperature Various furnaces	
Material Required for Estimating (kg/?)	1,250	
Water Required for Casting(%)	30-40	

## Contact Songhan Plastic Technology Co.,Ltd.

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