

Chosun Refractories CT-140 Fireclay Castables

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-CT-140-Fireclay-Castables.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.001962 - 0.005886 GPa	0.2846 - 0.8537 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.001962 - 0.005886 GPa	0.2846 - 0.8537 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.0024525 - 0.0063765 GPa	0.35571 - 0.92485 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
Compressive Strength	9.81 - 19.6 MPa	1420 - 2840 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	9.81 - 19.6 MPa	1420 - 2840 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	
	0.68626 W/m-K	4.7549 BTU-in/hr- ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.73279 W/m-K	5.0773 BTU-in/hr- ft ² -°F	
	@Temperature 800 °C		

Thermal Properties	Metric	@Temperature 1470 °F English	Comments
Maximum Service Temperature, Air	1400 °C	2550 °F	limited
Shrinkage	-0.300 %	-0.300 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	-0.0900 %	-0.0900 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	36 %	36 %	
SiO2	54 %	54 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Troweling	
Material Required for Estimating(kg/?)	1,850	
Water Required for Casting(%)	13.0	

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