

Chosun Refractories M55 Special High-Density Gunning Castable

Category : Ceramic , Oxide , Magnesium 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-M55-Special-High-Density-Gunning-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.69 g/cc	0.0972 lb/in ³	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	2.79 g/cc	0.101 lb/in ³	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	2.85 g/cc	0.103 lb/in ³	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
Porosity	16 %	16 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	21 %	21 %	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	22.5 %	22.5 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000981 GPa	0.142 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
	0.0035316 GPa	0.51222 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	0.004905 GPa	0.7114 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Shrinkage	-0.0300 %	-0.0300 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.15 %	0.15 %	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	1.5 %	1.5 %	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	31 %	31 %	
MgO	54 %	54 %	
SiO2	15 %	15 %	

Descriptive Properties	Value	Comments
Main Applications	Special furnace Main runner	
Material Required for Estimating (kg/?)	2,800	

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