

Chosun Refractories AU3 Blast Furnace Runner Refractory

Category : Ceramic , Oxide , Aluminum 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-AU3-Blast-Furnace-Runner-Refractory.php

Physical Properties	Metric	English	Comments
Bulk Density	2.64 g/cc	0.0954 lb/in ³	
	@Temperature 1450 °C, Time 7200 sec	@Temperature 2640 °F, Time 2.00 hour	
	2.70 g/cc	0.0975 lb/in ³	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
Porosity	16.3 %	16.3 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	21.2 %	21.2 %	
	@Temperature 1450 °C, Time 7200 sec	@Temperature 2640 °F, Time 2.00 hour	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0026487 GPa	0.38417 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.0080442 GPa	1.1667 ksi	
	@Temperature 1450 °C, Time 10800 sec	@Temperature 2640 °F, Time 3.00 hour	
Compressive Strength	10.6 MPa	1540 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	30.4 MPa	4410 psi	Cold Crushing Strength
	@Temperature 1450 °C, Time 7200 sec	@Temperature 2640 °F, Time 2.00 hour	

Thermal Properties	Metric	English	Comments
Shrinkage	-0.0700 %	-0.0700 %	

Thermal Properties	Metric @Temperature 1450 °C, Time 7200 sec	English @Temperature 2640 °F, Time 2.00 hour	Comments
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Component Elements Properties	Metric	English	Comments
Al2O3	55 %	55 %	
SiC	35 %	35 %	
SiO2	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Chemical Analysis(%),FC	2	
Installation Method	Casing Vibration	
Main Applications	Main runner Metal Zone	
Material Required for Estimating (kg/?)	2,740	
Water Required for Casting(%)	6.5	

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