

Chosun Refractories TCH-175S Torpedo Castable

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-TCH-175S-Torpedo-Castable.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.005886 GPa	0.8537 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.007848 GPa	1.138 ksi	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.00981 GPa	1.42 ksi	
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	
Compressive Strength	34.3 MPa	4980 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	49.0 MPa	7110 psi	Cold Crushing Strength
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	58.8 MPa	8530 psi	Cold Crushing Strength
	@Temperature 1500 °C, Time 10800 sec	@Temperature 2730 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1650 °C	3000 °F	limited
Shrinkage	-0.0300 %	-0.0300 %	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.10 %	0.10 %	
	@Temperature 1350 °C, Time 10800 sec	@Temperature 2460 °F, Time 3.00 hour	
	0.20 %	0.20 %	
	@Temperature 1500 °C,	@Temperature 2730 °F,	

Thermal Properties	Time 10800 sec Metric	Time 3.00 hour English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	80 %	80 %	
SiC	10 %	10 %	
SiO2	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Installation Method	Casting, Vibrating	
Material Required for Estimating(kg/?)	2,800	
Water Required for Casting(%)	6.0	

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