

Chosun Refractories APC-120 Acid-proof 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-APC-120-Acid-proof-Castable.php

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.004905 GPa	0.7114 ksi	
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	0.007848 GPa	1.138 ksi	
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
	0.00981 GPa	1.42 ksi	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
Compressive Strength	11.8 MPa	1710 psi	Cold Crushing Strength
	@Temperature 110 °C, Time 86400 sec	@Temperature 230 °F, Time 24.0 hour	
	29.4 MPa	4270 psi	Cold Crushing Strength
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
	34.3 MPa	4980 psi	Cold Crushing Strength
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1200 °C	2190 °F	limited
Shrinkage	-0.500 %	-0.500 %	
	@Temperature 1000 °C, Time 10800 sec	@Temperature 1830 °F, Time 3.00 hour	
	-0.250 %	-0.250 %	
	@Temperature 500 °C, Time 10800 sec	@Temperature 932 °F, Time 3.00 hour	
	-0.100 %	-0.100 %	
	@Temperature 110 °C,	@Temperature 230 °F,	

Thermal Properties	Time 86400 sec Metric	Time 24.0 hour English	Comments
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Component Elements Properties	Metric	English	Comments
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Al2O3	40 %	40 %	
SiO2	55 %	55 %	

Descriptive Properties	Value	Comments
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Installation Method	Casting, Vibrating	
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Main Applications	Chemical Plant	
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Material Required for Estimating (kg/?)	2,000	
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Water Required for Casting(%)	15	
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