

Gouda Vuurvast GOLITE 90 L Refractory Insulating Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Description: Golite 90 L is a castable with an extremely low density, used at places where a very good insulation is required. Remarks: These values apply to cast products. Also available in gunning variety, marked "GM". Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-GOLITE-90-L-Refractory-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	0.370 - 0.430 g/cc	0.0134 - 0.0155 lb/in ³	After drying at 110 ^o C
Particle Size	<= 7000 μ m	<= 7000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.300 - 0.500 MPa	43.5 - 72.5 psi	Cold Crushing Strength
	@Temperature 815 ^o C	@Temperature 1500 ^o F	
	0.400 - 0.600 MPa	58.0 - 87.0 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0300 - 0.0900 W/m-K	0.208 - 0.625 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	0.100 - 0.160 W/m-K	0.694 - 1.11 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	0.120 - 0.180 W/m-K	0.833 - 1.25 BTU-in/hr-ft ² - ^o F	
	@Temperature 815 ^o C	@Temperature 1500 ^o F	
Maximum Service Temperature, Air	870 ^o C	1600 ^o F	
Shrinkage	-3.00 - 1.00 %	-3.00 - 1.00 %	Permanent Linear Change
	@Temperature 815 ^o C	@Temperature 1500 ^o F	

Component Elements Properties	Metric	English	Comments
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AI2O3 Component Elements Properties	9.0 % Metric	9.0 % English	Comments
SiO2	33 %	33 %	

Descriptive Properties	Value	Comments
ASTM Classification	N	
Material Consumption per 1 m3	320 kg	
Mixing Water	120-170 liters	per 100 kgs dry material

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