

Gouda Vuurvast GOLITE 125 GM Refractory Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This insulating castable is characterized by a good mechanical strength and thermal shock resistance. Remarks: These values apply to cast products. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-GOLITE-125-GM-Refractory-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.45 - 1.55 g/cc	0.0524 - 0.0560 lb/in ³	After drying at 110 ^o C
Particle Size	<= 4000 μ m	<= 4000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	13.0 - 19.0 MPa	1890 - 2760 psi	Cold Crushing Strength
	@Temperature 1000 A°C	@Temperature 1830 A°F	
	17.0 - 23.0 MPa	2470 - 3340 psi	Cold Crushing Strength
	@Temperature 100 A°C	@Temperature 212 A°F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 - 0.470 W/m-K	2.57 - 3.26 BTU-in/hr-ft ² - A°F	
	@Temperature 100 A°C	@Temperature 212 A°F	
	0.420 - 0.520 W/m-K	2.91 - 3.61 BTU-in/hr-ft ² - A°F	
	@Temperature 600 A°C	@Temperature 1110 A°F	
	0.450 - 0.550 W/m-K	3.12 - 3.82 BTU-in/hr-ft ² - A°F	
	@Temperature 1000 A°C	@Temperature 1830 A°F	
Maximum Service Temperature, Air	1250 A°C	2280 A°F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1000 A°C	@Temperature 1830 A°F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	30 % Metric	30 % English	Comments
SiO2	51 %	51 %	

Descriptive Properties	Value	Comments
ASTM Classification	Q	
Material Consumption per 1 m3	1430 kg	

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