

Gouda Vuurvast GOLITE 1.2.4. MIX GM Refractory Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This light weight gunning castable is composed of 1 part cement, 2 parts light weight grains and 4 parts vermiculite. Special additives provide for higher strength and less shrinkage. 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-124-MIX-GM-Refractory-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.05 - 1.15 g/cc	0.0379 - 0.0415 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	2.50 - 3.50 MPa	363 - 508 psi	Cold Crushing Strength
	@Temperature 1000 $\text{\AA}$ ^o C	@Temperature 1830 $\text{\AA}$ ^o F	
	3.50 - 4.50 MPa	508 - 653 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}$ ^o C	@Temperature 212 $\text{\AA}$ ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 - 0.320 W/m-K	1.67 - 2.22 BTU-in/hr-ft ² - $\text{\AA}$ ^o F	
	@Temperature 100 $\text{\AA}$ ^o C	@Temperature 212 $\text{\AA}$ ^o F	
	0.270 - 0.350 W/m-K	1.87 - 2.43 BTU-in/hr-ft ² - $\text{\AA}$ ^o F	
	@Temperature 600 $\text{\AA}$ ^o C	@Temperature 1110 $\text{\AA}$ ^o F	
	0.300 - 0.380 W/m-K	2.08 - 2.64 BTU-in/hr-ft ² - $\text{\AA}$ ^o F	
	@Temperature 1000 $\text{\AA}$ ^o C	@Temperature 1830 $\text{\AA}$ ^o F	
Maximum Service Temperature, Air	1100 $\text{\AA}$ ^o C	2010 $\text{\AA}$ ^o F	
Shrinkage	-0.800 - 0.400 %	-0.800 - 0.400 %	Permanent Linear Change
	@Temperature 1000 $\text{\AA}$ ^o C	@Temperature 1830 $\text{\AA}$ ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	27 %	27 %	
SiO2	47 %	47 %	

Descriptive Properties	Value	Comments
ASTM Classification	0	
Material Consumption per 1 m3	1050 kg	

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