

Gouda Vuurvast GOLITE 1.0.6. Mix Refractory Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This castable is composed of a high quality alumina cement and vermiculite and is applied as a backlining. Special additives are responsible for the low shrinkage. This castable can be applied by casting or gunning. Warning: If the material is installed by gunning the values for cold crushing strength, thermal conductivity and bulk density after drying increase with ca. 15%. The material consumption increases with ca. 25%.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-106-Mix-Refractory-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	0.570 - 0.630 g/cc	0.0206 - 0.0228 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	0.800 - 1.20 MPa	116 - 174 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	0.800 - 1.20 MPa	116 - 174 psi	Cold Crushing Strength
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.100 - 0.180 W/m-K	0.694 - 1.25 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	0.160 - 0.240 W/m-K	1.11 - 1.67 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	0.210 - 0.290 W/m-K	1.46 - 2.01 BTU-in/hr-ft ² - ^o F	
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
Maximum Service Temperature, Air	1000 ^o C	1830 ^o F	
Shrinkage	-0.500 - 2.50 %	-0.500 - 2.50 %	Permanent Linear Change
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	29 %	29 %	
SiO2	27 %	27 %	

Descriptive Properties	Value	Comments
ASTM Classification	N	
Material Consumption per 1 m3	500 kg	
Mixing Water	100-110 liters	per 100 kgs dry material

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