

Gouda Vuurvast GOLITE 145 Refractory Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Golite 145 can be used in direct contact with the furnace conditions and combines a high strength with a good thermal insulation. 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-145-Refractory-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.50 - 1.60 g/cc	0.0542 - 0.0578 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 1260 \AA ^o C	@Temperature 2300 \AA ^o F	
Compressive Strength	22.0 - 28.0 MPa	3190 - 4060 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.360 - 0.460 W/m-K	2.50 - 3.19 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
Thermal Conductivity	0.410 - 0.510 W/m-K	2.85 - 3.54 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
Thermal Conductivity	0.470 - 0.570 W/m-K	3.26 - 3.96 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 1260 \AA ^o C	@Temperature 2300 \AA ^o F	
Maximum Service Temperature, Air	1450 \AA ^o C	2640 \AA ^o F	
Shrinkage	-1.00 - 1.00 %	-1.00 - 1.00 %	Permanent Linear Change
	@Temperature 1260 \AA ^o C	@Temperature 2300 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	52 %	52 %	
SiO2	40 %	40 %	

Descriptive Properties	Value	Comments
ASTM Classification	R	
Material Consumption per 1 m3	1470 kg	
Mixing Water	18-22 liters	per 100 kgs dry material

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