

Gouda Vuurvast GOLITE 160 GM Refractory Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Golite 180 GM is a gunning mix that can be used up to very high temperatures in reducing conditions. 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-160-GM-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°C |
| Particle Size | <= 3000 µm | <= 3000 µm | Grain Size |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|------------------------|
| Compressive Strength | 11.0 - 17.0 MPa | 1600 - 2470 psi | Cold Crushing Strength |
| | @Temperature 1400 °C | @Temperature 2550 °F | |
| Compressive Strength | 15.0 - 21.0 MPa | 2180 - 3050 psi | Cold Crushing Strength |
| | @Temperature 100 °C | @Temperature 212 °F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------------|---|-------------------------|
| Thermal Conductivity | 0.420 - 0.520 W/m-K | 2.91 - 3.61 BTU-in/hr-ft ² -°F | |
| | @Temperature 100 °C | @Temperature 212 °F | |
| | 0.440 - 0.540 W/m-K | 3.05 - 3.75 BTU-in/hr-ft ² -°F | |
| | @Temperature 600 °C | @Temperature 1110 °F | |
| | 0.530 - 0.630 W/m-K | 3.68 - 4.37 BTU-in/hr-ft ² -°F | |
| | @Temperature 1400 °C | @Temperature 2550 °F | |
| Maximum Service Temperature, Air | 1650 °C | 3000 °F | |
| Shrinkage | -0.600 - 0.600 % | -0.600 - 0.600 % | Permanent Linear Change |
| | @Temperature 1400 °C | @Temperature 2550 °F | |

| Component Elements Properties | Metric | English | Comments |
|--------------------------------|----------|----------|----------|
| Al ₂ O ₃ | 59 % | 59 % | |
| Fe ₂ O ₃ | <= 1.0 % | <= 1.0 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|--------------|-----------------|
| Descriptive Properties | | Value | Comments |
| ASTM Classification | | T | |
| Material Consumption per 1 m3 | | 1450 kg | |

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