

## Gouda Vuurvast FLUCON 160 H Dense Self Flowing Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

Description: Flucon 160 H is a self-flowing low cement castable on high fired high alumina grog base, characterized by a high strength and good 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-FLUCON-160-H-Dense-Self-Flowing-Refractory-Castable.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-FLUCON-160-H-Dense-Self-Flowing-Refractory-Castable.php)

| Physical Properties | Metric           | English                            | Comments              |
|---------------------|------------------|------------------------------------|-----------------------|
| Bulk Density        | 2.50 - 2.60 g/cc | 0.0903 - 0.0939 lb/in <sup>3</sup> | After drying at 110°C |
| Particle Size       | <= 6000 µm       | <= 6000 µm                         | Grain Size            |

| Mechanical Properties | Metric               | English              | Comments               |
|-----------------------|----------------------|----------------------|------------------------|
| Compressive Strength  | 65.0 - 75.0 MPa      | 9430 - 10900 psi     | Cold Crushing Strength |
|                       | @Temperature 100 °C  | @Temperature 212 °F  |                        |
| Compressive Strength  | 90.0 - 110 MPa       | 13100 - 16000 psi    | Cold Crushing Strength |
|                       | @Temperature 1000 °C | @Temperature 1830 °F |                        |

| Thermal Properties               | Metric               | English                                   | Comments                |
|----------------------------------|----------------------|---|-------------------------|
| Thermal Conductivity             | 1.15 - 1.35 W/m-K    | 7.98 - 9.37 BTU-in/hr-ft <sup>2</sup> -°F |                         |
|                                  | @Temperature 100 °C  | @Temperature 212 °F                       |                         |
|                                  | 1.18 - 1.38 W/m-K    | 8.19 - 9.58 BTU-in/hr-ft <sup>2</sup> -°F |                         |
|                                  | @Temperature 600 °C  | @Temperature 1110 °F                      |                         |
|                                  | 1.25 - 1.45 W/m-K    | 8.68 - 10.1 BTU-in/hr-ft <sup>2</sup> -°F |                         |
|                                  | @Temperature 1000 °C | @Temperature 1830 °F                      |                         |
| Maximum Service Temperature, Air | 1600 °C              | 2910 °F                                   |                         |
| Shrinkage                        | -0.300 - 0.300 %     | -0.300 - 0.300 %                          | Permanent Linear Change |
|                                  | @Temperature 1000 °C | @Temperature 1830 °F                      |                         |

| Component Elements Properties  | Metric | English | Comments |
|--------------------------------|--------|---------|----------|
| Al <sub>2</sub> O <sub>3</sub> | 63 %   | 63 %    |          |
| Fe <sub>2</sub> O <sub>3</sub> | 1.0 %  | 1.0 %   |          |

| Component Elements Properties | Metric | English      | Comments                 |
|-------------------------------|--------|--------------|--------------------------|
| <b>Descriptive Properties</b> |        | <b>Value</b> | <b>Comments</b>          |
| Material Consumption per 1 m3 |        | 2500 kg      |                          |
| Mixing Water                  |        | 6-6.5 liters | per 100 kgs dry material |

## Contact Songhan Plastic Technology Co.,Ltd.

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