

Gouda Vuurvast LP 97-3 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: A high alumina quality brick containing a limited percentage of chromium oxide for improved slag resistance. The product has a very low silica- and iron oxide percentage so that it can be used in strongly reducing atmospheres. LP quality bricks are produced by new pressing techniques and fired at temperatures over 1700°C, resulting in a very low porosity product with excellent chemical and physical properties. Remarks: This data represents average values, obtained from samples that were cut from standard bricks. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-LP-97-3-Dense-Refractory-Brick.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 3.35 g/cc | 0.121 lb/in ³ | Apparent |
| Porosity | 13 % | 13 % | Apparent |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---------|-----------|------------------------|
| Compressive Strength | 100 MPa | 14500 psi | Cold Crushing Strength |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------------|------------------------------------|--|
| Thermal Conductivity | 3.60 W/m-K | 25.0 BTU-in/hr-ft ² -°F | |
| | @Temperature 1100 °C | @Temperature 2010 °F | |
| | 3.80 W/m-K | 26.4 BTU-in/hr-ft ² -°F | |
| | @Temperature 650 °C | @Temperature 1200 °F | |
| | 5.80 W/m-K | 40.3 BTU-in/hr-ft ² -°F | |
| | @Temperature 100 °C | @Temperature 212 °F | |
| Maximum Service Temperature, Air | 1750 °C | 3180 °F | Deformation under load - t _a |
| | 1850 °C | 3360 °F | |

| Component Elements Properties | Metric | English | Comments |
|--------------------------------|-----------|-----------|----------|
| Al ₂ O ₃ | 97 % | 97 % | |
| Cr ₂ O ₃ | 3.0 % | 3.0 % | |
| Fe ₂ O ₃ | <= 0.20 % | <= 0.20 % | |
| SiO ₂ | <= 0.30 % | <= 0.30 % | |

| Descriptive Properties | Value | Comments |
|--------------------------|--------------|-----------|
| Segecone | Min 42 | |
| Thermal Shock Resistance | 10-15 cycles | DIN 51068 |

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