



SKAMOL vermiculite insulating brick

for hot-face and back-up insulation up to 1100°C (2012°F)



| | | |
|---|--------------------------------|----------------------|
| Grade | V-LITE (375) | |
| Maximum service temperature | | |
| | °C | 1100 |
| | °F | 2012 |
| Bulk density, dry | | |
| | kg/m ³ | 375 |
| | lbs/cu.ft. | 23.4 |
| Compressive strength (EN 1094-5; 1995) | | |
| @ room temperature | MPa | 1.3 |
| | lbs/sq.in. | 189 |
| Modulus of rupture (EN 993-6; 1995) | | |
| | MPa | 0.5 |
| | lbs/sq.in. | 73 |
| Total porosity | | |
| | % | 85 |
| Specific heat | | |
| | kJ/(kg×K) | 0.94 |
| | BTU/(lb×°F) | 0.224 |
| Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990) | | |
| @ 20°C-750°C (68°F-1382°F) | K ⁻¹ | 11×10 ⁻⁶ |
| | °F ⁻¹ | 6.1×10 ⁻⁶ |
| Resistance to thermal shock (EN 993-11; 1998) | | |
| heating to 950°C (1742°F) | cycles | >10 |
| Linear reheat shrinkage (EN 1094-6; 1999) | | |
| 12 h at 1000°C (1832°F) | % | 1.0 |
| Pyrometric cone equivalent (ASTM C24-89 ORTON cones) | | |
| | °C | 1300 |
| | °F | 2372 |
| Thermal conductivity (ASTM C-182) | | |
| mean temp. @ 200°C | W/(m×K) | 0.12 |
| @ 400°C | | 0.15 |
| @ 600°C | | 0.16 |
| @ 392°F | BTU/(sq.ft.×h×°F/in) | 0.83 |
| @ 752°F | | 1.04 |
| @ 1112°F | | 1.11 |
| Chemical analysis, typical | | |
| Silica | % | 47 |
| Titanium dioxide | SiO ₂ | 0.5 |
| Ferric oxide | TiO ₂ | 4.0 |
| Alumina | Fe ₂ O ₃ | 7.0 |
| Magnesium oxide | Al ₂ O ₃ | 21 |
| Calcium oxide | MgO | 2.0 |
| Sodium oxide | CaO | 0.5 |
| Potassium oxide | Na ₂ O | 11 |
| Loss on ignition 1025°C (1877°F) | K ₂ O | 7.0 |
| | LOI | |
| Colour | Light brown | |

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Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted.

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