



TECHNICAL DATA

CALDE® CAST XL 106 C/G

PRODUCT TYPE

| | |
|-----------------------------------|--|
| Maximum recommended temperature | : Alumina - Silica product |
| Main component | : Insulating castable |
| Type of bond | : 1060°C |
| Appearance | : Vermiculite |
| Packaging | : Hydraulic |
| Shelf life | : Dry, for addition of water |
| Installation method | : Sacks |
| Maximum grain size | : 12 months |
| Material required | : Hand compaction, Gunning |
| casting | : 3 mm |
| gunning | : 0.51 T/m³ |
| Water required for mixing on site | : 0.73 T/m³ (Rebound included) |
| casting | : 96.0 / 116.0 litres per 100 kg of dry material |
| gunning | : Added at the nozzle |
| Guidelines | : Installation Nr 9 |

| PRODUCT PROPERTIES | STANDARD | AVERAGE VALUES | | UNITS |
|---|---------------|----------------|---------|-------------------|
| | | Cast | Gunned | |
| <u>CHEMICAL ANALYSIS</u> | | | | |
| SiO ₂ | EN ISO 1927-3 | 31.0 | | % |
| Al ₂ O ₃ | EN ISO 1927-3 | 30.0 | | % |
| CaO | EN ISO 1927-3 | 16.5 | | % |
| Fe ₂ O ₃ | EN ISO 1927-3 | 9.0 | | % |
| <u>PHYSICAL PROPERTIES</u> | | | | |
| <u>Measured on samples prepared according to</u> | - | EN ISO 1927-5 | CALD010 | - |
| <u>Bulk density</u> | | | | |
| after drying at 110 °C | EN ISO 1927-6 | 0.56 | 0.66 | g/cm ³ |
| after firing at 800 °C | EN ISO 1927-6 | 0.50 | 0.60 | g/cm ³ |
| <u>Cold crushing strength</u> | | | | |
| after drying at 110 °C | EN ISO 1927-6 | 1.2 | 1.5 | MPa |
| after firing at 500 °C | EN ISO 1927-6 | 0.9 | 1.2 | MPa |
| after firing at 800 °C | EN ISO 1927-6 | 0.9 | 1.2 | MPa |
| <u>Permanent linear change</u> | | | | |
| after firing at 500 °C | EN ISO 1927-6 | -0.6 | -0.6 | % |
| after firing at 800 °C | EN ISO 1927-6 | -0.7 | -0.7 | % |
| after firing at 1000 °C | EN ISO 1927-6 | -2.0 | -2.1 | % |
| <u>Thermal conductivity</u> | | | | |
| at a mean temperature of 500 °C | EN ISO 1927-8 | 0.14 | 0.16 | W/mK |
| at a mean temperature of 800 °C | EN ISO 1927-8 | 0.16 | 0.19 | W/mK |
| <u>Reversible thermal expansion after firing [20-1000 °C]</u> | | 0.55 | 0.55 | % |

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