# TECHNICAL DATA

# CALDE® CAST LX 58

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|---|---|
| **PRODUCT TYPE** | : Alumina - Silica product<br>Low cement castable |
| Maximum recommended temperature | : 1650°C |
| Main component | : Andalusite |
| Type of bond | : Hydraulic |
| Appearence | : Dry, for addition of water |
| Packaging | : Sacks |
| Shelf life | : 6 months |
| Installation method | : Vibrating |
| Maximum grain size | : 6 mm |
| Material required | : 2.50 T/m³ |
| Drinking water required for mixing on site | : 5.6 / 6.0 litres per 100 kg of dry material |
| Guidelines | : Installation Nr 6 |

| PRODUCT PROPERTIES | STANDARD | AVERAGE VALUES | UNITS |
|---|---|---|---|
| CHEMICAL ANALYSIS | | | |
| Al2O3 | EN ISO 1927-3 | 57.0 | % |
| SiO2 | EN ISO 1927-3 | 38.0 | % |
| CaO | EN ISO 1927-3 | 2.3 | % |
| Fe2O3 | EN ISO 1927-3 | 1.1 | % |
| PHYSICAL PROPERTIES | | | |
| Measured on samples prepared according to | EN ISO 1927-5 | | - |
| Bulk density | | | |
| after drying at 110 °C | EN ISO 1927-6 | 2.50 | g/cm3 |
| after firing at 800 °C | EN ISO 1927-6 | 2.45 | g/cm3 |
| Open porosity | | | |
| after firing at 800 °C | EN ISO 1927-6 | 17 | % |
| Cold crushing strength | | | |
| after drying at 110 °C | EN ISO 1927-6 | 95 | MPa |
| after firing at 800 °C | EN ISO 1927-6 | 100 | MPa |
| after firing at 1200 °C | EN ISO 1927-6 | 85 | MPa |
| after firing at 1600 °C | EN ISO 1927-6 | 90 | MPa |
| Permanent linear change | | | |
| after firing at 800 °C | EN ISO 1927-6 | -0.0 | % |
| after firing at 1200 °C | EN ISO 1927-6 | +0.0 | % |
| after firing at 1600 °C | EN ISO 1927-6 | +1.0 | % |
| Thermal conductivity | | | |
| at a mean temperature of 800 °C | EN ISO 1927-8 | 1.61 | W/mK |
| at a mean temperature of 1000 °C | EN ISO 1927-8 | 1.62 | W/mK |
| at a mean temperature of 1200 °C | EN ISO 1927-8 | 1.71 | W/mK |
| Abrasion resistance | | | |
| after firing at 815°C | EN ISO 16282 | <9 | cm3 |
| Reversible thermal expansion after firing [20-1000 °C] | | 0.67 | % |

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The data are current production averages. They cannot be used as limits for a specification.

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