



TECHNICAL DATA

CALDE™ CAST NB 82 QD

| | |
|--|---|
| PRODUCT TYPE | : Alumina - Silica product |
| Maximum recommended temperature | : No cement castable |
| Main component | : 1650°C |
| Type of bond | : Bauxite |
| Appearance | : Mineral reaction |
| Packaging | : Dry, for addition of water |
| Shelf life | : Sacks |
| Installation method | : 4 months |
| Maximum grain size | : Vibrating |
| Material required | : 6 mm |
| Drinking water required for mixing on site | : 2.80 T/m³ |
| Guidelines | : 6.0 / 7.0 litres per 100 kg of dry material |
| | : Installation Nr 6-QD |

| PRODUCT PROPERTIES | STANDARD | AVERAGE VALUES | UNITS |
|--|------------|----------------|-------|
| CHEMICAL ANALYSIS | | | |
| - | | | |
| Al2O3 | EN 1402-3 | 82.0 | % |
| SiO2 | EN 1402-3 | 13.5 | % |
| Fe2O3 | EN 1402-3 | 1.0 | % |
| CaO | EN 1402-3 | 0.2 | % |
| PHYSICAL PROPERTIES | | | |
| Measured on samples prepared according to | EN 1402-5 | | - |
| <u>Bulk density</u> | | | |
| after drying at 110 °C | EN 1402-6 | 2.81 | g/cm³ |
| after firing at 800 °C | EN 1402-6 | 2.82 | g/cm³ |
| <u>Cold crushing strength</u> | | | |
| after drying at 110 °C | EN 1402-6 | 100 | MPa |
| after firing at 800 °C | EN 1402-6 | 106 | MPa |
| after firing at 1200 °C | EN 1402-6 | 160 | MPa |
| after firing at 1400 °C | EN 1402-6 | 140 | MPa |
| <u>Permanent linear change</u> | | | |
| after firing at 800 °C | EN 1402-6 | -0.17 | % |
| after firing at 1200 °C | EN 1402-6 | -0.13 | % |
| after firing at 1400 °C | EN 1402-6 | +0.17 | % |
| <u>Thermal conductivity</u> | | | |
| at a mean temperature of 800 °C | EN 993-15 | 2.53 | W/mK |
| at a mean temperature of 1000 °C | EN 993-15 | 2.42 | W/mK |
| at a mean temperature of 1200 °C | EN 993-15 | 2.35 | W/mK |
| <u>Abrasion resistance after firing at 800°C</u> | ASTM C 704 | < 6.2 | cm³ |
| <u>Reversible thermal expansion after firing [20-1000°C]</u> | - | 0.76 | % |

Commercial Code : MAU70016

Version : 5

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

CALDERYS