



TECHNICAL DATA

CALDE™ BRICK B 85

PRODUCT TYPE

: Alumina silica brick

Main component

Fired

: Bauxite

| PRODUCT PROPERTIES | STANDARD | AVERAGE VALUES | UNITS |
|---|----------|----------------|-------------------|
| <u>CHEMICAL ANALYSIS</u> | | | |
| SiO ₂ | EN 955-5 | 10 - 12 | % |
| Al ₂ O ₃ | EN 955-5 | 83 - 85 | % |
| Fe ₂ O ₃ | EN 955-5 | < 1.8 | % |
| <u>PHYSICAL PROPERTIES</u> | | | |
| <u>As received</u> | | | |
| Bulk density | EN 993-1 | 2.75 - 2.90 | g/cm ³ |
| Apparent Porosity | EN 993-1 | 18 - 19 | % |
| Cold crushing strength | EN 993-5 | 80 | MPa |
| <u>Refractoriness Under Load T°C for 0.5%</u> | - | 1500 | °C |

Commercial Code : MAB80001

Version : 10

Date : 11/07/2013

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



TECHNICAL DATA

CALDE™ MAG BRICK MA 85

PRODUCT TYPE : Magnesita-Spinel bricks
 Fired
 Main component : Magnesia

| PRODUCT PROPERTIES | STANDARD | AVERAGE VALUES | UNITS |
|--|----------|----------------|-------------------|
| CHEMICAL ANALYSIS | | | |
| Al ₂ O ₃ | EN 955-5 | 9 - 11 | % |
| MgO | EN 955-5 | 84 - 87 | % |
| Fe ₂ O ₃ | EN 955-5 | < 1 | % |
| CaO | EN 955-5 | < 1 | % |
| PHYSICAL PROPERTIES | | | |
| <u>As received</u> | | | |
| Bulk density | EN 993-1 | 2.95 | g/cm ³ |
| Apparent Porosity | EN 993-1 | 17 | % |
| Cold crushing strength | EN 993-5 | 55 | MPa |
| <u>Thermal conductivity</u> | | | |
| at a mean temperature of 1000 °C | | 3.0 | W/mK |
| <u>Thermal Shock Resistance (at 950°C)</u> | | | |
| Cooling by air (Nr. of cycles) | - | > 100 | - |
| Reversible thermal expansion after firing [20-1000 °C] | | 1.4 | % |
| Refractoriness Under Load T°C for 0,5% | - | 1700 | °C |

Commercial Code : MBB80002

Version : 11

Date : 18/05/2015

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



TECHNICAL DATA

CALDE™ MAG BRICK MF 80

PRODUCT TYPE

: Magnesite-Hercynite bricks

Main component

 Fired
 : Magnesite

| PRODUCT PROPERTIES | STANDARD | AVERAGE VALUES | UNITS |
|---|----------|----------------|-------------------|
| <u>CHEMICAL ANALYSIS</u> | | | |
| MgO | EN 955-5 | 80 | % |
| Al ₂ O ₃ | EN 955-5 | 5 | % |
| Fe ₂ O ₃ | EN 955-5 | 8 - 10 | % |
| <u>PHYSICAL PROPERTIES</u> | | | |
| <u>As received</u> | | | |
| Bulk density | EN 993-1 | 2.95 | g/cm ³ |
| Apparent Porosity | EN 993-1 | 17 | % |
| Cold crushing strength | EN 993-5 | 55 | MPa |
| <u>Refractoriness Under Load T°C for 0.5%</u> | - | 1680 | °C |

Commercial Code : MBB80003

Version : 10

Date : 26/07/2013

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