# CFS Alumina 99,9% Al2O3

C 799 - Ivory

| PROPERTY | UNIT | VALUE |
|---|---|---|
| Classification as per DIN ISO | - | C 799 |
| Main component | Weight - % | 99,9% Al2O3 |
| Colour | - | Ivory |
| Density | $g/cm^3$ | 3,96 |
| Open porosity | Vol - % | 0 |
| Bending strength | MPa | >480 |
| Compressive strength | MPa | 2500 |
| Modulus of elasticity | GPa | >400 |
| Vickers hardness | $N/mm^2$ | >19.000 |
| Fracture toughness | MPa $m^{1/2}$ | 5 |
| Weibull modulus | - | 20 |
| Linear thermal expansion coefficient | $10^{-6}$ $K^{-1}$ | 8,5 |
| Thermal conductivity | W $m^{-1}$ $K^{-1}$ | 35 |
| Max. working temperature in air | °C | 1700 |

## TECHNICAL NOTES

The values were determined on test specimens and are typical for the respective material. Product attributes may vary depending on the design and production process. Other materials are available on demand.