CFS Alumina 99,7% Al2O3

C 799 - Ivory

PROPERTY	UNIT	VALUE
Classification as per DIN ISO	-	C 799
Main component	Weight - %	99,7% Al2O3
Colour	-	Ivory
Density	g/cm^3	3,90
Open porosity	Vol - %	0
Bending strength	MPa	>370
Compressive strength	MPa	2500
Modulus of elasticity	GPa	>380
Vickers hardness	N/mm^2	>17.000
Fracture toughness	MPa $m^{1/2}$	4
Weibull modulus	-	15
Linear thermal expansion coefficient	10^{-6} K^{-1}	8,5
Thermal conductivity	W m^{-1} K^{-1}	30
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.