

MATERIAL DATA SHEET

Material type: Aluminium Oxide (Al₂O₃)

DEGUSSIT AL25

Properties		Unit	Specific value
Main component		-	α - Al ₂ O ₃
Purity		wt-%	> 99.5
Density		g / cm ³	> 2.8
Open Porosity		vol.-%	20 - 30
Average Size of Crystallites		µm	70
Bending Strength σ_m	DIN EN 843-1	MPa	70
Compressive Strength		MPa	300
Maximum Service Temperature in Air		°C	1950
Linear Coefficient of Expansion	20 - 1000°C	10 ⁻⁶ / K	8.2
Typical Colour		-	white

The data indicated on this table are in line with the introductory German Industrial Standard DIN 40680 and relate to test specimens from which they were obtained. They are not unconditionally applicable to other forms of the same material. The data must be regarded as indicative only. All data refer to a temperature of 20 °C, unless otherwise specified.