

DEGUSSIT AL24

2021.06.29

Material Type: Aluminium oxide (α -Al₂O₃)

MECHANICAL & PHYSICAL CHARACTERISTICS (TYP.)

Purity		[wt.-%]	>99.5
Density		[g/cm ³]	>3.40
Open porosity		[vol.-%]	≤5
Average size of crystallites		[μm]	40
Bending strength σ_m DIN EN 843-1		[MPa]	150
Compressive strength		[MPa]	1000
Maximum service temperature in air		[°C]	1950
Linear coefficient of expansion	20 - 1000°C	[10 ⁻⁶ /K]	8.2
Thermal conductivity	20 °C	[W/(m*K)]	27.8
	1000 °C		5.5
	1500° C		4.5
Typical colour		[-]	cream white

The data indicated on this table are in line with the introductory German Industrial Standard DIN 60672-2 are relate to test specimens from which they were obtained. They are not unconditionally applicable to other forms if the same material. The data must be regarded as indicative only. All data refer to a temperature of 20 °C, unless otherwise specified.