

DEGUSSIT ZR25

2021.06.29

Material Type: fused stabilized Zirconia ($ZrO_2 + MgO$)

MECHANICAL & PHYSICAL CHARACTERISTICS (TYP.)

Purity		[wt.-%]	>99
Density		[g/cm ³]	>4.30
Open porosity		[vol.-%]	approx. 24
Bending strength σ_m DIN EN 843-1		[MPa]	80
Thermal shock resistance		[-]	very high
Maximum application temperature		[°C]	2200
Linear coefficient of expansion	20 - 500 °C	[10 ⁻⁶ /K]	7.22
	20 - 1000°C		4.51
Specific heat 20 °C		[J/(kg*K)]	770
Thermal conductivity	30 °C	[W/(m*K)]	0.9
	1000 °C		1.9
Typical colour		[-]	sahara

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.