



MARTOXID[®] MRS

Aluminum Oxide

Einsatzbeispiele / Applications

Oxidkeramik mit hohen Al_2O_3 -Gehalten, insbesondere für mechanisch, thermisch, chemisch und elektrisch extrem belastbare keramische Komponenten; Hochleistungszündkerzen, Substrate und ballistische Anwendungen.

Oxide ceramics of high Al_2O_3 -content, subjected to extremely high mechanical, thermal, chemical and electrical loads; high efficiency spark plugs, substrates and armor protection.

Durchschnittsanalyse / Typical analysis

Al_2O_3	[%]	≈ 99.8
Na_2O total	[%]	< 0.05
CaO	[%]	≈ 0.01
Fe_2O_3	[%]	≈ 0.03
SiO_2	[%]	≈ 0.05
$\alpha\text{-Al}_2\text{O}_3$	[%]	> 95
Glühverlust / Loss on Ignition	[%]	≤ 0.1
Spezifische Oberfläche / Specific Surface Area (BET)	[m^2/g]	1.5 – 2.5
Primärkorn / Primary Crystal	[μm]	≈ 1.0 – 1.4
Schüttdichte / Bulk Density	[kg/m^3]	≈ 900
Korngrößenverteilung / Particle Size Distribution (Siebung / Screening)		
	> 106 μm [%]	20 – 50
	106 – 63 μm [%]	35 – 60
	63 – 45 μm [%]	1 – 15
	< 45 μm [%]	0 – 20

Shipping Information

Packaging and minimum order quantity information is available from sales or customer service.

Safety and Handling Information

For specific safety, toxicity and handling information, please refer to the material safety data sheet on this product.

Chemical Registration Numbers

Chem. Bezeichnung / Chem. name:	Aluminiumoxid
Formel / formula:	Al ₂ O ₃
CAS No.:	1344-28-1
EC/EINECS No.:	215-691-6
UN-Nr.:	---

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