



MARTOXID® MR-52

Aluminum Oxide

Einsatzbeispiele / Applications

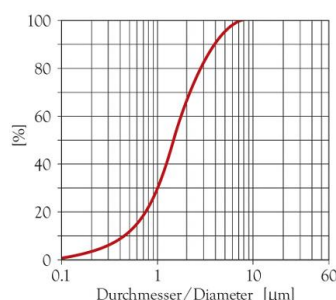
Herstellung extrem beanspruchbarer Oxidkeramikkörper mit sehr hohem Al_2O_3 -Gehalt über isostatisches und axiales Pressen, Schlickerguß und Spritzguß; Folienguß (Substrate)

Production of wear-resistant oxide ceramics with very high Al_2O_3 -content for extreme service using isostatic and axial pressing, slip casting; injection molding, tape casting (substrate).

Durchschnittsanalyse / Typical analysis

Al_2O_3	[%]	≈ 99.8
Na_2O total	[%]	≤ 0.1
CaO	[%]	≈ 0.04
Fe_2O_3	[%]	≈ 0.03
SiO_2	[%]	≈ 0.01
MgO	[%]	≈ 0.08
$\alpha\text{-Al}_2\text{O}_3$	[%]	≥ 95
Glühverlust / Loss on Ignition	[%]	≤ 0.3
Spezifische Oberfläche / Specific Surface Area (BET)	[m ² /g]	6 – 9
Primärkorn / Primary Crystal	[μm]	≈ 1.5
Schüttdichte / Bulk Density	[kg/m ³]	≈ 1100
Wasseraufnahme / Water Adsorption	[ml/100 g]	≈ 13

Korngrößenverteilung / Particle Size Distribution (Cilas 1064)



d_{10} [μm]	0.3 – 0.5
d_{50} [μm]	1 – 1.7
d_{90} [μm]	3 – 6

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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