



MARTOXID® MR-23

Aluminum Oxide

Einsatzbeispiele / Applications

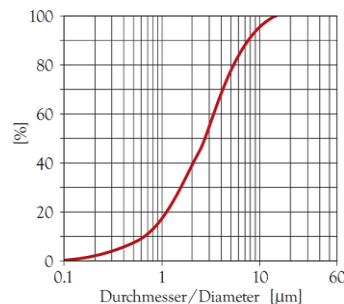
Al₂O₃-Komponente für Hartporzellan, feuerfeste Bindesysteme und Verschleißkeramiken.

Al₂O₃-component in hard porcelains, refractory binding systems and wear-resistant ceramics.

Durchschnittsanalyse / Typical analysis

Al ₂ O ₃	[%]	≈ 99.8
Na ₂ O total	[%]	≤ 0.1
CaO	[%]	≈ 0.02
Fe ₂ O ₃	[%]	≈ 0.02
SiO ₂	[%]	≈ 0.05
α-Al ₂ O ₃	[%]	≥ 95
Glühverlust / Loss on Ignition	[%]	≤ 0.2
Spezifische Oberfläche / Specific Surface Area (BET)	[m ² /g]	1.3 – 2.3
Primärkorn / Primary Crystal	[μm]	≈ 3
Schüttdichte / Bulk Density	[kg/m ³]	≈ 600
Gründichte / Green Density	(50 MPa) [g/cm ³]	2.16 – 2.30

Korngrößenverteilung / Particle Size Distribution (Cilas 1064)



d ₁₀ [μm]	0.4 – 0.9
d ₅₀ [μm]	2.0 – 3.5
d ₉₀ [μm]	5.0 – 9.0
> 45 μm [%]	≤ 1

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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