



MARTOXID® MR-42

Aluminum Oxide

Einsatzbeispiele / Applications

Hochverdichtbares, feinstgemahlenes Aluminiumoxid als reaktive Bindekomponente für geformte und ungeformte Feuerfesterzeugnisse sowie für Gieß- und Extrusionskeramiken.

High compressible superground alumina as a reactive binding component for shaped and unshaped refractory products as well as for cast and extrusion 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

Spezifische Oberfläche / Specific Surface Area (BET)	[m ² /g]	2 – 3
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Schüttdichte / Bulk Density	[kg/m ³]	≈ 600
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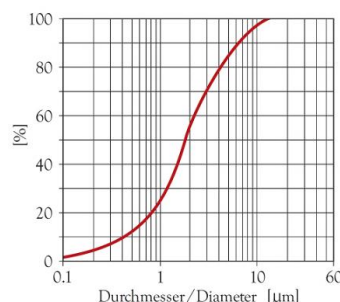
Wasseraufnahme / Water Adsorption	[ml/100 g]	≈ 18
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Typische Verarbeitungseigenschaften /
Typical Processing Features:

Gründichte / Green Density	(50 MPa) [g/cm ³]	2.1 – 2.3
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Sinterdichte / Fired Density	(1600°C, 2h) [g/cm ³]	ca. 3.0 – 3.3
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Korngrößenverteilung / Particle Size Distribution
(Cilas 1064)



d ₁₀ [μm]	0.3 – 0.6
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d ₅₀ [μm]	1.5 – 2.5
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d ₉₀ [μm]	4.0 – 7.0
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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_2O_3
CAS No.: 1344-28-1
EC/EINECS No.: 215-691-6
UN-Nr.: ---

EUROPE, MIDDLE EAST, AFRICA

Martinswerk GmbH
Kölner Straße 110
D-50127 Bergheim

Phone: +49-2271-902-0
Fax: +49-2271-902-710

AMERICAS

Huber Engineered Materials
3100 Cumberland Boulevard
Suite 600
Atlanta, Georgia 30339

Phone: +1 (678) 247-7300
Fax: +1 (678) 247-2797

ASIA PACIFIC

Huber Fire Retardant Additives
(Qingdao) Co.Ltd
8th Floor No.2 Building, No.7,
Wuyishan Road, Huangdao District,
Qingdao – China

Phone: +86 532-58792008
Fax: +86 532-58792008

Web: www.martinswerk.de
www.hubermaterials.com

Email: info@martinswerk.com
hubermaterials@huber.com



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