



# MARTOXID® MR-42

## 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 <sub>2</sub> O <sub>3</sub>	[%]	≈ 99.8
Na <sub>2</sub> O total	[%]	≤ 0.1
CaO	[%]	≈ 0.02
Fe <sub>2</sub> O <sub>3</sub>	[%]	≈ 0.02
SiO <sub>2</sub>	[%]	≈ 0.05

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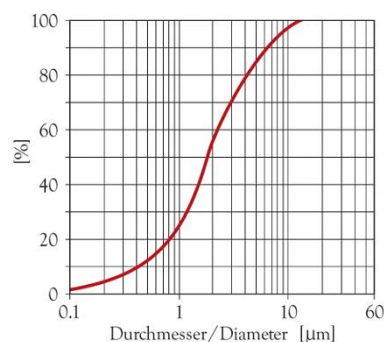
Wasseraufnahme / Water Adsorption	[ml/100 g]	≈ 18
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### Typische Verarbeitungseigenschaften / Typical Processing Features:

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



d<sub>10</sub> [μm] 0.3 – 0.6

d<sub>50</sub> [μm] 1.5 – 2.5

d<sub>90</sub> [μm] 4.0 – 7.0

Die oben genannten Werte sind nur als Richtwerte zu verstehen und nicht etwa als zugesicherte Eigenschaften.  
The above mentioned values should be taken only as indications and not as guaranteed properties.

## 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:  $\text{Al}_2\text{O}_3$   
CAS No.: 1344-28-1  
EC/EINECS No.: 215-691-6  
UN-Nr.: ---

### EUROPE, MIDDLE EAST, AFRICA

Martinswerk GmbH  
Kölnener Straße 110  
D-50127 Bergheim

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

Web: [www.martinswerk.de](http://www.martinswerk.de)  
[www.hubermaterials.com](http://www.hubermaterials.com)

### 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

Email: [info@martinswerk.com](mailto:info@martinswerk.com)  
[hubermaterials@huber.com](mailto:hubermaterials@huber.com)



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