



# MARTOXID® MZS

## Aluminum Oxide

### Einsatzbeispiele / Applications

Oxidkeramik mit bis zu sehr hohen  $\text{Al}_2\text{O}_3$ -Gehalten, insbesondere für mechanisch, thermisch, chemisch und elektrisch extrem belastbare Formstücke; Hochleistungszündkerzen für eine Vielzahl von Industriezweigen; Aluminiumherstellung.

Oxide ceramics even with very high  $\text{Al}_2\text{O}_3$ -content, especially shaped products subjected to extremely high mechanical, thermal, chemical and electrical loads; high efficiency spark plugs for a wide variety of industries; aluminum production.

### Durchschnittsanalyse / Typical analysis

$\text{Al}_2\text{O}_3$	[%]	≈ 99.8
$\text{Na}_2\text{O}$ total	[%]	≤ 0.1
CaO	[%]	≈ 0.02
$\text{Fe}_2\text{O}_3$	[%]	≈ 0.02
$\text{SiO}_2$	[%]	≈ 0.04
$\alpha\text{-Al}_2\text{O}_3$	[%]	≥ 95
Glühverlust / Loss on Ignition	[%]	≤ 0.1
Spezifische Oberfläche / Specific Surface Area (BET)	[ $\text{m}^2/\text{g}$ ]	0.6 – 1.3
Primärkorn / Primary Crystal	[ $\mu\text{m}$ ]	≈ 2.5
Schüttdichte / Bulk Density	[ $\text{kg}/\text{m}^3$ ]	≈ 800
Korngrößenverteilung / Particle Size Distribution (Siebung / Screening)		
	> 106 $\mu\text{m}$ [%]	20 – 50
	106 – 63 $\mu\text{m}$ [%]	35 – 60
	63 – 45 $\mu\text{m}$ [%]	1 – 15
	< 45 $\mu\text{m}$ [%]	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 <sub>2</sub> O <sub>3</sub>
CAS No.:	1344-28-1
EC/EINECS No.:	215-691-6
UN-Nr.:	---

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

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



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