



# MARTOXID® MZS

## 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

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.: ---

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