

**Einsatzbeispiele /  
Applications**

Oxidkeramik mit bis zu sehr hohen Al<sub>2</sub>O<sub>3</sub>-Gehalten, insbesondere für mechanisch, thermisch, chemisch und elektrisch extrem belastbare Formstücke; Hochleistungszündkerzen für eine Vielzahl von Industriezweigen.

Oxide ceramics even with very high Al<sub>2</sub>O<sub>3</sub>-content, especially shaped products subjected to extremely high mechanical, thermal, chemical and electrical loads; high efficiency spark plugs for a wide variety of industries.

**Durchschnittsanalyse /  
Typical analysis**

Al <sub>2</sub> O <sub>3</sub>	[%]	≈ 99.8
Na <sub>2</sub> O total		≤ 0.1
CaO		≤ 0.03
Fe <sub>2</sub> O <sub>3</sub>		≤ 0.03
SiO <sub>2</sub>		≤ 0.05
α-Al <sub>2</sub> O <sub>3</sub>	[%]	≥ 95
Glühverlust / Loss on Ignition	[%]	≤ 0.1
Spezifische Oberfläche / Specific Surface Area (BET)	[m <sup>2</sup> /g]	0.6 – 1.3
Primärkorn / Primary Crystal	[µm]	≈ 2.5
Schüttdichte / Bulk Density	[kg/m <sup>3</sup> ]	≈ 800
Korngrößenverteilung / Particle Size Distribution (Siebung / Screening)		
	> 106 µm [%]	20 – 50
	106 – 63 µm [%]	35 – 55
	63 – 45 µm [%]	1 – 15
	< 45 µm [%]	0 – 20



## Shipping Information

Transportation classification: not regulated for transportation  
Harmonized tariff number: 28182000

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



9 JAN 1998

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