

**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; Verschleißkeramik 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 wear-resistant parts for a wide variety of industries.

**Durchschnittsanalyse /  
Typical analysis**

		MDS	MDLS
Al <sub>2</sub> O <sub>3</sub>	[%]	≈ 99.8	≈ 99.8
Na <sub>2</sub> O total		≤ 0.1	≤ 0.06
CaO		≤ 0.05	≤ 0.05
Fe <sub>2</sub> O <sub>3</sub>		≤ 0.03	≤ 0.03
SiO <sub>2</sub>		≤ 0.08	≤ 0.08
α-Al <sub>2</sub> O <sub>3</sub>	[%]	≥ 95	≥ 95
Glühverlust / Loss on Ignition	[%]	≤ 0.1	≤ 0.1
Spezifische Oberfläche / Specific Surface Area (BET)	[m <sup>2</sup> /g]	0.3 - 0.6	0.3 - 0.6
Primärkorn / Primary Crystal	[µm]	≈ 4	≈ 4
Schüttdichte / Bulk Density	[kg/m <sup>3</sup> ]	≈ 750	≈ 750
Korngrößenverteilung / Particle Size Distribution (Siebung / Screening)			
	> 106 µm [%]	45 - 65	45 - 65
	106 - 63 µm [%]	20 - 35	20 - 35
	63 - 45 µm [%]	5 - 15	5 - 15
	< 45 µm [%]	0 - 15	0 - 15



## 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:	Al <sub>2</sub> O <sub>3</sub>
CAS No. :	1344-28-1
EG-/EINECS No.:	215-691-6
UN-Nr.:	~



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