



MARTOXID® MDLS-6

Aluminum Oxide

Einsatzbeispiele / Applications

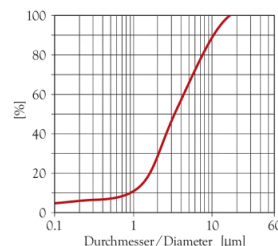
Aluminiumoxid mit hohem Al_2O_3 -Gehalt zur Herstellung von mechanisch und chemisch belastbaren Formstücken. Füllstoff in Epoxidharz - Hochspannungsbauteilen (GIS) mit hervorragenden mechanischen und elektrischen Eigenschaften.

Aluminium oxide with high Al_2O_3 -content for chemical and mechanical resistant components. Filler in epoxy resin high voltage insulator parts (GIS) with excellent electrical and mechanical properties.

Durchschnittsanalyse / Typical analysis

Al_2O_3	[%]	≈ 99.8
Na_2O total	[%]	≈ 0.03
Na_2O löslich / soluble	[%]	≤ 0.02
CaO	[%]	≈ 0.03
Fe_2O_3	[%]	≈ 0.03
SiO_2	[%]	≈ 0.06
$\alpha\text{-Al}_2\text{O}_3$	[%]	≥ 95
Glühverlust / Loss on Ignition	[%]	≤ 0.1
Spezifische Oberfläche / Specific Surface Area (BET)	[m ² /g]	0.5 – 1.4
Primärkorn / Primary Crystal	[μm]	≈ 4
Schüttdichte / Bulk Density	[kg/m ³]	≥ 800
Elektrische Leitfähigkeit / Electrical conductivity (25 % in H_2O)	[μS/cm]	≤ 100

Korngrößenverteilung / Particle Size Distribution (Cilas 1064)



d_{10} [μm]	0.5 – 2.5
d_{50} [μm]	3.0 – 4.0
d_{90} [μm]	7 – 14
> 45 μm [%]	≤ 1

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_2O_3
CAS No.:	1344-28-1
EC/EINECS No.:	215-691-6
UN-Nr.:	---

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