

AEROXIDE® Alu 65

Highly dispersed fumed aluminium oxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	55 - 75
pH value in 4% dispersion		4.5 - 6.0
Loss on drying* 2 hours at 105 °C	%	≤ 5.0
Tamped density*	g/l	approx. 50
Al ₂ O ₃ content based on ignited material	%	≥ 99.8
Sieve residue (by Mocker, 45 µm)	%	≤ 0.050
* ex plant The data represents typical values (no product specification)		

Registrations (substance or product components)

AEROXIDE® Alu 65

CAS-No.	1344-28-1
REACH (Europe)	registered
TSCA (USA)	registered
DSL (Canada)	registered
AICS (Australia)	registered
ENCS (Japan)	registered
IECSC (China)	registered
KECI (Korea)	registered

AEROXIDE® Alu 65 is produced analogous to the AEROSIL® process developed by Evonik. It is a very fine fumed metal oxide with a high surface area. Due to the electropositive chargeability, AEROXIDE® Alu 65 leads to specific properties in various applications.

Applications and properties

Applications

- Powder coatings to increase electrostatic chargeability and regulate flow properties
- Photo ink-jet paper coatings for high gloss, absorption, enhanced color and printing capabilities
- Antiblocking agent in PET films
- Fluorescent lighting as a mercury barrier function
- Ceramic coating for separators in Li-ion batteries to increase safety and life-time

Properties

- High BET surface area
- High chemical purity
- Positive surface charge / chargeability

Safety and handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Operations, Product Safety Department, E-MAIL sds-im@evonik.com We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

AEROXIDE® Alu 65 is supplied in multiple layer 10 kg paper bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROXIDE® Alu 65 should be used within 2 years after production.

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