

AEROXIDE® Alu 130

Highly dispersed fumed aluminium oxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	110 - 150
pH value in 4% dispersion		4.4 - 5.4
Loss on drying* 2 hours at 105 °C	%	≤ 5.0
Tamped density*	g/l	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 130

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

AEROXIDE® Alu 130 is produced analogous to the AEROSIL-process developed by Evonik. It is a very fine fumed metal oxide with a very high specific surface area of 130 m²/g. Due to the electropositive chargeability, AEROXIDE® Alu 130 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
- Fluorescent lighting applications for mercury barrier and inorganic binder
- Dry coating of cathode materials in Li-ion batteries to increase performance and life-time

Properties

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

Packaging and storage

AEROXIDE® Alu 130 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 130 should be used within 2 years after production.

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.

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