

Product information

AEROXIDE® Alu C

Highly dispersed fumed aluminium oxide (Al₂O₂)

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m²/g	85 - 115
pH value in 4% dispersion		4.5 - 5.5
Loss on drying* 2 hours at 105 °C	%	≤ 5.0
Tamped density*	g/l	арргох. 50
Al ₂ O ₃ content based on ignited material	%	≥ 99.8
Sieve residue (by Mocker 45 μm)	%	≤ 0.050
* ev plant		

The data represents typical values (no product specification)

Registrations (substance or product components)

AEROXIDE® Alu C

CAS-No.	1344-28-1	
REACH (Europe)	registered	
TSCA (USA) DSL (Canada)	registered	
ENCS (Japan) IECSC (China) KECI (Korea) CSNN (Taiwan) PICCS (Philippines)	registered	
AICS (Australia) NZIoC (New Zealand)	registered	

AEROXIDE® Alu C is a fine-particulate, pure aluminium oxide (Al₂O₃) with high specific surface area and marked aggregate and agglomerate structure. Because of it high purity and low water content, the product can be used well as an additive to anorganic materials, for heat insulation, and also as a catalyst substrate. The positive surface charge can be used to control the electrostatic charge.

Applications and properties

Properties

- High specific surface area and high purity
- Low water content
- Crystalline Al_2O_3 with γ - $/\delta$ structure
- Very high thermal and chemical stability
- Positive surface charge

Applications

- In ceramic materials as a bonding agent and for control of sintering activity
- Filler in thermoplastic polymers, silicones, and composite materials to control density, heat conductivity, and dielectric characteristics
- Control of electric charging and triboelectric processes
- Flow regulation of fine particulate organic and inorganic materials with and without electrostatic charging
- Efficient catalyst substrate with good thermal and hydrothermal stability
- Improved gloss, ink absorption, and color brilliance of photo inkjet media
- Multiplies the lifetime of fluorescent tubes and energysaving lamps
- Ceramic coating for separators in Li-ion batteries to increase safety and life-time

Packaging and storage

AEROXIDE® Alu C 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 C 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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