

## Product Information

# AEROXIDE® Alu C

## CAS NUMBER

1344-28-1

## PRODUCT DESCRIPTION

AEROXIDE® Alu C is a fine-particulate, pure aluminium oxide (Al<sub>2</sub>O<sub>3</sub>) with high specific surface area and marked aggregate and agglomerate structure. Because of its 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.

### Typical Properties

Property	Unit	Value
<b>Chemical Name</b>		Aluminum oxide
<b>Loss on Drying</b>	wt%	≤5.0
<b>Loss on Ignition</b>	wt%	≤3.0
<b>pH Value</b> in 4% Dispersion		4.5-5.5
<b>Sieve Residue</b> Mocker 45 µm	wt%	≤0.05
<b>Tamped Density</b>	g/l	50

The data represents typical values (no product specification)

## TYPICAL APPLICATIONS

Typical applications: Lithium ion batteries, ceramics, powder coatings

### Product Composition

Product Composition	Unit	Value
<b>Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) Content</b>	wt%	99.5

The data represents typical values (no product specification)

## BENEFITS & ADVANTAGES

- High specific surface area and high purity
- Low water content
- Crystalline Al<sub>2</sub>O<sub>3</sub> with γ-/δ structure
- Very high thermal and chemical stability
- Positive surface charge

## SAFETY

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 [sdsim@evonik.com](mailto:sdsim@evonik.com). We recommend to read carefully the safety data sheet prior to the use of our product.

## STORAGE

Our silica products are inert and chemically extremely stable. However, due to their high specific surface area, they can adsorb moisture and volatile organic compounds from the surrounding atmosphere. Products have to be stored in their original packaging (e.g. fully shrink-wrapped) or in sealed containers in a dry place away (or apart) from volatile organic substances. Even if a product is stored in these conditions, it can still pick up ambient moisture after a long time, which can cause it to exceed the stated maximum moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

## SHELF LIFE

2 years

### Registration Listings

Registry	Status
<b>Australia (AIIC)</b>	Yes
<b>Canada (DSL)</b>	Yes

#### Registration Listings

Registry	Status
China (IECSC)	Yes
EU (EINECS/ELINCS)	Yes
EU (REACH)	Yes
Japan (ENCS)	not available
South Korea (KECL)	Yes

#### Registration Listings

Registry	Status
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

#### Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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