

Aluminum Sulfate Hydrate

$$\text{Al}_2(\text{SO}_4)_3 \cdot 14.3 \text{H}_2\text{O}$$

Aluminum Sulfate, Hydrate - Dry, Filter, Papermaker's Alum

Product Bulletin

9213 Arch Street Pike
 Little Rock, AR 72206
 USA
 Tel: +1 501 888 1211
 Toll Free 800 453 2586

Please send email enquiries to:
wtc.sales@geosc.com

Website: www.geosc.com

Aluminum Sulfate Hydrate - Standard, technical grade is a white to light tan colored, ground crystalline solid. It complies with the chemical specifications of the American Water Works Association B403-09 and Federal Specification A-A-55823A, Type 1, Class 2. It has been certified by the National Sanitation Foundation (NSF) for use in the treatment of drinking water at a maximum dosage of 150 mg/L.

Note: Depending on local requirements, solutions of variable acidity or basicity may be produced, as well as lower assay.

Specifications	
CAS Number	10043-01-3
CAS Index Name	Sulfuric Acid, Aluminum Salt (3:2)
Grade	Technical
Molecular Weight	599.8
Assay (as available water soluble %Al ₂ O ₃):	17.0% min.
(As Aluminum Sulfate, Anhydrous (Al ₂ (SO ₄) ₃):	57.0% min.
Water Soluble Iron (as Fe ₂ O ₃):	0.75% max.
Water Insolubles:	0.5% max.

Typical Properties	
pH (1% solution):	3.5
Solubility (pounds per gallon of water at 68°F):	7.28
Sieving:	
Ground: Through 10 mesh	>90%*
Powder: Through 100 mesh	>95%
Bulk Density (pounds per cubic foot):	65 (ground)

* Meets A-A-55823A, Type 1, Class 2 and B403-09 Ground

Uses

Chemical: In the treatment of waste.

Pulp and Paper: In the production of paper.

Water Treatment: In the treatment of water and wastewater for coagulation, flocculation, pH control and phosphorus removal.

Containers:

- ◆ 50 pound net weight Paper Bags
- ◆ 2250 pound net weight Super Sacks

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