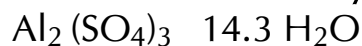


# Aluminum Sulfate - Iron Free, Hydrate (Dry Alum)



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

Technical Data Sheet

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Aluminum Sulfate, Hydrate - Iron Free, technical grade is a white, 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.

Specifications	
CAS Number	10043-01-3
CAS Index Name	Sulfuric Acid, Aluminum Salt (3:2)
Grade	Technical; Iron Free - Hydrate (dry)
Molecular Weight	599.8
Assay (As available Water Soluble $\text{Al}_2\text{O}_3$ ):	17.0% minimum
(As Aluminum Sulfate, Anhydrous $\text{Al}_2(\text{SO}_4)_3$ ):	57.0% minimum
Water Insolubles	0.5% maximum

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

Typical Properties	
Water Soluble Iron (as Fe <sub>2</sub> O <sub>3</sub> ):	150 ppm
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
- ◆ 25 ton net weight Bulk Trucks

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