

# Aluminum Sulfate, Solution—Commercial

$\text{Al}_2(\text{SO}_4)_3$  (in aqueous solution)

Aluminum Sulfate, Solution - Liquid Alum

Product Bulletin

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Aluminum Sulfate, Solution - Commercial, technical grade color ranges from clear to light amber. It complies with the specifications of the American Water Works Association B403-09. 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 (dry basis).

*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	342.2 (Anhydrous)
Assay {as available water soluble $\text{Al}_2\text{O}_3$ }:}	8.0% min.
{As Aluminum Sulfate, Anhydrous ( $\text{Al}_2(\text{SO}_4)_3$ ):}	26.8% min.
{As Aluminum Sulfate, Dry [ $\text{Al}_2(\text{SO}_4)_3 \cdot 14.3\text{H}_2\text{O}$ ]}:	47.1% min.
Water Soluble Iron (as $\text{Fe}_2\text{O}_3$ ):}	0.35% max.
Water Insoluble Material:	0.20% max.

Typical Properties	
For 8.1% Al <sub>2</sub> O <sub>3</sub> solution:	
Density (pounds per gallon of water at 60°F):	11.075
Concentration (pounds of Dry Alum) (17% Al <sub>2</sub> O <sub>3</sub> ) per gallon:	5.28
Concentration (pounds Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> per gallon):	3.01
Freezing Point (crystallization):	4°F
Baumé (60°F):	35.85

## Uses

Leather: In leather tanning and fur dressing.

Metallurgy: In the pickling of metals.

Pulp and Paper: In paper manufacturing.

Textiles: A mordant in dyeing.

Water Treatment: In coagulation and flocculation.

## Containers:

- ◆ 23-ton net weight Tank Trucks
- ◆ 54-ton and 96-ton net weight Tank Cars

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