



Aluminum Sulfate Solution Commercial Grade PRODUCT BULLETIN

CAS NUMBER: 10043-01-3

CHEMICAL FORMULA: $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$ in aqueous solution

DESCRIPTION: Aluminum sulfate solution is a clear, water-white to light amber liquid. Aluminum sulfate supplied by Southern Ionics Incorporated complies with AMERICAN WATER WORKS ASSOCIATION specification B403-03.

NSF CERTIFICATION: Aluminum Sulfate manufactured at Baton Rouge, LA; Calhoun, TN; Chickasaw, AL; Lake Charles, LA; Pasadena, TX and West Point, MS are NSF-60 Certified. Maximum use in potable water is 150 mg/l.

APPLICATION:

- Clarifying aid for raw-water and waste-water treatment.
- Pitch control and sizing agent in pulp and paper production.

CHEMICAL AND PHYSICAL PROPERTIES:

| | Minimum | Maximum | Typical |
|---|---------|---------|---------|
| * Al_2O_3 % by wt. | 8.12 | 8.39 | 8.26 |
| *Baumé @ 60°F | 35.5 | 36.5 | 36.0 |
| pH (1% solution, wt/wt) | - | - | 3.6 |
| Iron as Fe (ppm) | - | 2450 | - |
| Turbidity NTU | - | 40 | - |
| Conc. % dry $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$ | - | - | 48.57 |
| Conc. lbs dry alum, 17% Al_2O_3 per gal | - | - | 5.39 |
| Density (lbs/gal) @ 60°F | - | - | 11.09 |
| Freezing Point (°F) | - | - | 5 |

*Certificate of Analysis Properties

PACKAGING: 4,500 gallon stainless steel tank trucks, railcars, intermediate bulk containers, and 55 gallon drums.

HANDLING & STORAGE:

Materials of Construction:

Storage tanks - 316 stainless steel, polyethylene, or FRP with epoxy vinyl ester resin.

(over)

Pumps - Alloy 20, 316 SS, Teflon lined, or Hastalloy B.

Piping - Sch 80 PVC, CPVC, Alloy 20, 316 SS, Polyethylene (Polypropylene) lined or FRP.

Storage temperature - ambient, freezes @ ~5°F

SAFETY:

Aluminum sulfate solution should be handled in open or well ventilated areas. Eye and skin contact is prevented through the use of safety glasses, goggles, face shield, protective clothing, and gloves. Contact with aluminum sulfate solution should be removed with copious amounts of water. **Do not use this product until the MSDS has been read, understood, and required safety precautions are followed.**

SHIPPING POINTS:

West Point, Mississippi; Baton Rouge, Louisiana; Pasadena, Texas; Calhoun, Tennessee; Chickasaw, Alabama; Lake Charles, Louisiana.

DOT MARKINGS:

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Aluminum Sulfate Solution), 8, UN3264, PG III, RQ (Aluminum Sulfate, 5000 lbs/2270 kg) TN=Alum, Aqueous Solution, Placarded Corrosive

SALES OFFICE

For Product Information:

TEL: 662-494-3055

FAX: 662-494-2828

Post Office Drawer 1217

West Point, MS 39773

To Place an Order:

TEL: 800-953-3585

FAX: 800-953-3588

IMPORTANT

The information on this Product Bulletin is believed to be accurate but is not warranted to be so. Protective equipment, health effects, and other related safety measures are based on intended and anticipated product use. Recipients are advised to confirm in advance of need that the information is applicable and suitable to their circumstances.