



# Iron Free Activated Alum 167

## PRODUCT BULLETIN

**CAS NUMBER:** 10043-01-3, 7664-93-9, 7732-18-5

**CHEMICAL FORMULA:** Proprietary blend of Aluminum Oxides, Sulfuric Acid, and water.

**DESCRIPTION:** Iron free activated alum solution is a clear, water-white to light amber liquid, with a slight acidic odor. Activated alum supplied by Southern Ionics Incorporated complies with AMERICAN WATER WORKS ASSOCIATION specification B403-03.

**NSF CERTIFICATION:** Activated Alum manufactured at Baton Rouge, LA; Chickasaw, AL; Lake Charles, LA; Pasadena, TX and West Point, MS is NSF-60 certified. Maximum use in potable water 150 mg/l.

**CORROSIVITY:** Iron can greatly increase the acid corrosion rate of metal alloys. To prevent this, iron free activated alum contains a maximum of 50 ppm Fe.

**APPLICATION:** Clarifying aid for raw-water and wastewater treatment.

### CHEMICAL AND PHYSICAL PROPERTIES:

	Minimum	Maximum
*Al <sub>2</sub> O <sub>3</sub> % by wt.	5.6	6.2
*H <sub>2</sub> SO <sub>4</sub> % by wt.	6.7	7.3
Iron as Fe (ppm)	-	50
TOC (ppm)	-	20
pH (1% solution, wt/wt)	-	<1.0
*Baume @ 60°F	32.5	35.0
Density (lbs/gal) @ 60°F	10.7	11.0
Specific Gravity @ 60°F	1.29	1.32
Conc. % dry Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> • 14 H <sub>2</sub> O	32.6	36.1

\*Certificate of Analysis Properties

**PACKAGING:** Rubber lined stainless steel tank trucks, railcars, intermediate bulk containers, and 55 gallon drums.

(over)

**HANDLING &  
STORAGE:**

**Materials of Construction:**

Storage tanks – Rubber lined stainless steel, FRP with epoxy vinyl ester resin, or polyethylene.

Pumps –Teflon lined or Hastalloy B

Piping –Sch 80, CPVC, Polyethylene (Polypropylene) lined or FRP.

Storage temperature – ambient, freezes @ ~5°F

**SAFETY:**

Iron free activated alum 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 iron free activated alum 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:**

Baton Rouge, Louisiana; Chickasaw, Alabama; Lake Charles, Louisiana; Pasadena, Texas; and West Point, Mississippi

**DOT MARKINGS:**

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Aluminum Sulfate/Sulfuric Acid), 8, UN3264, PG II, 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.