



# Sodium Aluminate, 38% Solution

## PRODUCT BULLETIN

**CAS NUMBER:** 1302-42-7

**CHEMICAL FORMULA:**  $\text{Na}_2\text{Al}_2\text{O}_4$  in aqueous solution

**DESCRIPTION:** Sodium aluminate is an alkaline source of high-purity, reactive alumina in aqueous solution. It is manufactured in two forms, stabilized and unstabilized. The stabilized form will remain stable for a minimum of 12 months. Sodium aluminate manufactured by Southern Ionics Incorporated complies with AMERICAN WATER WORKS ASSOCIATION specification B-405-00.

**NSF CERTIFICATION:** Sodium Aluminate manufactured at Calhoun, TN is NSF-60 certified. Maximum use in potable water is 105 mg/l.

**APPLICATION:**

- Clarifying aid for raw-water and wastewater treatment.
- Pitch control and sizing agent in pulp and paper production.
- Source of soluble aluminum for the production of aluminum chemicals.
- Titanium dioxide manufacturing.

### CHEMICAL AND PHYSICAL PROPERTIES:

	Minimum	Maximum	Typical
* $\text{Al}_2\text{O}_3$ % by wt.	19.4	20.4	19.9
* $\text{Na}_2\text{O}$ % by wt.	17.8	18.8	18.3
Specific Gravity	-	-	1.48
$\text{Na}_2\text{O}/\text{Al}_2\text{O}_3$ Molecular Ratio	-	-	1.51/1.0
Iron as Fe % by wt.	-	-	0.002
Density (lbs/gal)	-	-	12.3
pH	-	-	14.0

\*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 - Stainless steel or carbon steel.

Pumps - Carbon steel

(over)

Piping - PFA Teflon tubing double contained in PVC or stainless steel tubing.  
Storage temperature - 75° - 100°F typical

**SAFETY:** Sodium aluminate should be handled in open or well ventilated areas. Eye and skin contact is prevented through the use of safety glasses, goggles, face shields, protective clothing, and gloves. Contact with sodium aluminate 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; Pasadena, Texas; Calhoun, Tennessee; Lake Charles, Louisiana; and Chickasaw, Alabama

**DOT MARKINGS:** Sodium Aluminate Solution, 8, UN1819, 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

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#### 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.