



## Technical Data Sheet

### USALCO® 38 Sodium Aluminate Solution, 38% Solids

USALCO 38 is an economical source of highly reactive alumina manufactured by dissolving alumina tri-hydrate (ATH) into sodium hydroxide and water. USALCO 38 is also stabilized to prevent alumina from precipitating. The use of only stringently selected raw materials and state-of-the-art manufacturing practices ensures that USALCO 38 is of the highest quality. USALCO 38 meets the specifications of the American Water Works Association Standard B405-16 and complies with the requirements of NSF/ANSI 60: Drinking Water Treatment Chemicals -Health Effects at a maximum dosage of 105 mg/L.

#### PROPERTIES

|                         |  |
|-------------------------|--|
| Chemical Formula:       | Na <sub>2</sub> Al <sub>2</sub> O <sub>4</sub> |
| Appearance:             | Amber Liquid                                   |
| Specific Gravity @60°F: | 1.46 - 1.49                                    |
| Product Weight:::       | 12.18 - 12.43 Lbs./Gal                         |
| pH (neat):              | 14   |
| pH (1% solution):       | >11.5  |
| Viscosity (cps):        | 155 @25C<br>80@45C                             |

#### SPECIFICATIONS

|  |              |
|--|--------------|
| % Al <sub>2</sub> O <sub>3</sub> :                                 | 19.5 - 20.5  |
| % Na <sub>2</sub> O:   | 17.9 - 19.1  |
| % Na <sub>2</sub> Al <sub>2</sub> O <sub>4</sub> :                 | 31.4 - 33.0  |
| Molar Ratio (Na <sub>2</sub> O / Al <sub>2</sub> O <sub>3</sub> ): | 1.48 - 1.54  |
| Iron:  | 200 ppm, max |
| Silica:  | 225 ppm, max |

#### PRINCIPAL USES

Drinking water / wastewater treatment – removal of suspended matter and phosphorus.

Catalyst, zeolite, molecular sieve manufacturing.

Coating for titanium dioxide pigments.

Pulp and paper manufacturing – pitch control and sizing agent.

#### SAFETY/HANDLING

Observe caution when handling corrosive materials. Please consult the safety data sheet (SDS) for safety and handling precautions.

#### DELIVERY

275 gallon IBCs (totes), tank trucks and railcars

#### PRODUCTION

USALCO has production facilities in:

- Baltimore, Maryland
- Fairfield, Ohio
- Michigan City, Indiana
- Ashtabula, Ohio
- Port Allen, Louisiana

#### CUSTOMER SERVICE

If you have any questions concerning this material, please contact our Inside Sales Department at:

**410-918-2230** or [info@usalco.com](mailto:info@usalco.com)