



# Technical Data Sheet

## USALCO® 38

### Sodium Aluminate Solution, 38% Solids

USALCO Sodium Aluminate Solution (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 AWWA Standard B405-16 and complies with the requirements of NSF/ANSI/CAN 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 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:	200 ppm, max

#### PRINCIPAL USES

Drinking water / wastewater treatment – removal of suspended and dissolved matter such as organics and phosphorus. Catalyst, zeolite, molecular sieve manufacturing. Coating for titanium dioxide pigments. Pulp and paper manufacturing – pitch control and sizing agent. Catalyst Manufacturing - Sulfur Recovery Catalyst, Dessicants Purification, Hydrotreating (HDT), Hydrocracking (HCK), Fluid Catalytic Cracking (FCC), Reforming (REF), Isomerization (ISOM)

#### 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
- Savannah, Georgia
- Ashtabula, Ohio
- Fairfield, Ohio
- Michigan City, Indiana
- Lake Charles, Louisiana

#### CUSTOMER SERVICE

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

**800-282-5322** or [info@usalco.com](mailto:info@usalco.com)