

USALCO 45

Sodium Aluminate Solution, 45% Solids

USALCO 45 is an economical source of highly reactive alumina manufactured by dissolving alumina tri-hydrate (ATH) into sodium hydroxide and water. USALCO 45 is also stabilized to prevent alumina from precipitating. The use of only stringently selected raw materials and state-of-the-art manufacturing practices ensure that USALCO 45 is of the highest quality. USALCO 45 meets the specifications of the American Water Works Association Standard B405-00 and complies with the requirements of NSF/ANSI Standard 60: Drinking Water Treatment Chemicals – Health Effects at a maximum dosage of 89 mg/L.

PROPERTIES

Chemical Formula:	$\text{Na}_2\text{Al}_2\text{O}_4$
Appearance:	Amber Liquid
Specific Gravity @60°F:	1.537 – 1.567
Product Weight::	12.82 – 13.07 Lbs/US Gallon
pH (neat):	14
pH (1% solution):	> 11.5
Viscosity (cps):	100 @ 43°C 250 @ 32°C 700 @ 21°C 1,500 @ 13°C

SPECIFICATIONS

% Al_2O_3 :	24.6 – 25.4
% Na_2O :	18.8 – 19.8
% $\text{Na}_2\text{Al}_2\text{O}_4$:	39.6 – 40.8
Molar Ratio ($\text{Na}_2\text{O} / \text{Al}_2\text{O}_3$):	1.25 – 1.29
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 material safety data sheet (MSDS) for safety and handling precautions.

DELIVERY

55-gallon drums, 330-gallon totes, Bulk tank trucks, Railcars

Sodium aluminate, solution, 8, UN1819, PG II

PRODUCTION

USALCO has production facilities in:

Ashtabula, Ohio
Fairfield, Ohio
Michigan City, Indiana

CUSTOMER SERVICE

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

410-918-2230 or **info@usalco.com**