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 ensures that USALCO 45 is of the highest quality. USALCO 45 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 89 mg/L.

**PROPERTIES**

- **Chemical Formula:** Na₂Al₂O₄
- **Appearance:** Amber Liquid
- **Specific Gravity @60°F:** 1.54 - 1.57
- **Product Weight:** 12.82 - 13.07 Lbs/Gal
- **pH (neat):** 14
- **pH (1% solution):** >11.5
- **Viscosity (cps):**
  - 110@43°C
  - 250@32°C
  - 700@ 21°C
  - 1,500@ 13°C

**SPECIFICATIONS**

- **% Al₂O₃:** 24.6 - 25.4
- **% Na₂O:** 18.8 - 19.8
- **% Na₂Al₂O₄:** 39.6 - 40.8
- **Molar Ratio (Na₂O / Al₂O₃):** 1.25 - 1.29
- **Iron:** 200 ppm, max
- **Silica:** 225 ppm, max

**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