



Sodium Aluminate Solid

CAS No.: 11138-49-1

Formula: NaAlO_2

DESCRIPTION

Sodium Aluminate Solid is a fine white powder that dissolves readily in water to form a strongly alkaline solution. It is produced by reacting alumina trihydrate with sodium hydroxide, followed by drying into a stable solid form. As a concentrated source of both sodium oxide and aluminium oxide, it serves as an effective alkaline coagulant and reactive intermediate in numerous industrial applications.

KEY FEATURES

- Provides a high concentration of reactive aluminum and alkalinity in a single solution
- Highly effective coagulant for flocculation and water clarification
- Improves cement setting time and enhances rheology in drilling fluids
- Low insoluble content ensures clarity and stability in solution
- Compatible with a wide range of industrial formulations and treatment systems

APPLICATIONS

- Water treatment as a coagulant and source of aluminum hydroxide for flocculation and pH control
- Used in construction and drilling as an additive in cement and mud formulations to enhance setting and fluid properties
- Supplies aluminum oxide for use in pigment and polymer production in the pigments and plastics industries
- Employed in paper and textile processing as an alkali agent and buffering additive

TYPICAL SPECIFICATIONS

Parameter	Unit	LT-3	LT-4	LT-4
NaAlO_2	%	70–74	80–85	85–89
Al_2O_3	%	44–46	50–53	53–55
Na_2O	%	35–37	38–40	40–42
Molar Ratio ($\text{Na}_2\text{O} / \text{Al}_2\text{O}_3$)	-	1.2–1.3	1.2–1.3	1.2–1.3
Fe	ppm	≤ 150	≤ 200	≤ 200
Insolubles	%	≤ 0.2	≤ 1.0	≤ 0.2



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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- Available in 25 kg or 50 lb bags, and 1,000 kg bulk bags (super sacks).

STORAGE

Store in a dry, well-ventilated area away from moisture and direct sunlight. Keep in sealed original packaging to prevent caking and degradation.

SAFETY & HANDLING

Avoid contact with skin and eyes and prevent inhalation of dust. Sodium aluminate is strongly alkaline; wear appropriate PPE including gloves, goggles, and dust masks. Refer to the product SDS for complete information on handling, disposal, and first-aid measures.