Sodium Silicate Liquid SSL3340

CAS No.: 1344-09-8
Chemical Formula: $Na_2O{\cdot}nSiO_2$ (aqueous solution)

Sodium Silicate SSL3340 is a clear, alkaline aqueous solution containing sodium oxide and silica in a controlled ratio. It is widely used as a binder, adhesive, detergent builder, and in construction chemicals. Its high clarity, controlled density, and low iron content make it suitable for applications requiring consistent performance and high transparency.

KEY FEATURES

- Balanced silica-to-alkali molar ratio (3.35) for excellent binding and adhesion.
- High Baume value (40.0°Be at 20 °C) ensuring solution strength and stability.
- High transparency (96.4%) and low Fe content (0.003%) for clean performance.
- Reliable consistency with controlled density (1.381 g/ml at 20 °C).

APPLICATIONS

- Construction: cement admixtures, soil stabilisation, refractory materials.
- Detergents & Cleaning: builder in laundry, dishwashing, and industrial cleaning formulations.
- Adhesives & Binders: paper, board, and foundry applications.
- Water Treatment: flocculant aid, corrosion inhibitor formulations.

TYPICAL SPECIFICATIONS

Item	Specification	Typical Result
Na_2O %	≥ 8.30	8.78
SiO_2 %≥	26.50	28.47
Molar Ratio (SiO_2/Na_2O)	3.20 – 3.40	3.35
Baume (20 °C, °Be)	39.0 – 40.0	40.0
Density (20 °C, g/ml)	1.368 – 1.381	1.381
Transparency %	≥ 85.0	96.4
Fe %	≤ 0.007	0.003

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

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PACKAGING

- Bulk liquid in 1000 L IBCs, 200 L HDPE drums, or bulk tanker.
- Alternative packaging available on request.

STORAGE

- Store in closed containers away from acids and incompatible materials.
- Keep between 10 °C and 35 °C.
- Avoid prolonged contact with glass, aluminium, or zinc.

SAFETY & HANDLING

- Alkaline solution – causes skin and eye irritation.
- Wear protective gloves, goggles, and clothing when handling.