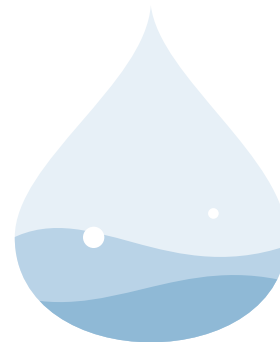


EUROPEAN PRODUCER OF INDUSTRIAL SILICATES

Liquid sodium silicate

Water glass for detergent production, industrial cleaning products and other industrial applications.



Alkalinity

pH buffering

Binding

Adhesion & agglomeration

Dispersion

Particle suspension

Gelling

Grout formation

Core industrial applications

Selected uses of liquid sodium silicate and the role it performs in each process.

Detergents & cleaning

Filtered grade for detergent production

Filtered liquid sodium silicate for laundry detergents, degreasers and industrial cleaners. Supports alkaline buffering, soil dispersion and corrosion control; also used in spray-dried detergent powders.

Ceramics

Clay deflocculation

Disperses clay particles in ceramic slips, reducing viscosity and supporting processing at higher solids content. Grade and dosage depend on the clay system.

Foundries

Inorganic sand binding

Raw material for sand mould and core binder systems hardened with carbon dioxide or ester-based curing agents. Validate binder performance through process trials.

Pulp, paper & recycling

Deinking & peroxide stabilization

Helps disperse removed ink, reduce its redeposition on fibres and stabilize hydrogen peroxide during pulp bleaching. Used in virgin- and recycled-fibre processes.

Ground engineering & tunnels

Grout formation & setting control

Component of chemical grouts for ground consolidation and water-ingress control. Also used in selected annular-grout and alkaline set-accelerator formulations.

Mineral processing

Dispersion & selective depression

Dispersant and, in selected flotation circuits, a depressant for unwanted minerals. Performance depends on ore mineralogy, pH and the other process reagents.

Further industrial applications

Alkali-activated binders

Slag, fly ash & geopolymers

Provides soluble silica and alkalinity in formulated activator systems for selected slags, fly ash and other aluminosilicate precursors.

Paper adhesives & agglomeration

Adhesion & particle binding

Binder for paper tubes, fibre drums and board adhesives. Also used in selected briquetting and pelletizing systems.

Refractories & fire protection

Mineral binder formulations

Raw material for refractory mortars, repair mixes, insulation products and fire-protective composites. Final performance depends on the complete formulation.

Concrete floor treatment

Surface densification

Raw material for floor densifiers. Reacts with free lime to form calcium silicate hydrates, helping reduce concrete dusting and improve wear resistance.

Silica & chemical derivatives

Chemical feedstock

Silica source for precipitated silica, silica gel, colloidal silica, synthetic zeolites and selected catalyst materials.

Textile processing

Bleaching & dye fixation

Helps stabilize hydrogen peroxide during textile bleaching and provides alkaline buffering in selected reactive-dye fixation processes.

Our liquid sodium silicate grades

MODULUS 2.0

2.0 - 2.5

$\text{SiO}_2 / \text{Na}_2\text{O}$
molar ratio

MODULUS 3.0

3.0 - 3.5

$\text{SiO}_2 / \text{Na}_2\text{O}$
molar ratio

Grade selection depends on molar ratio, solids content, viscosity, purity and process conditions. Confirm suitability through formulation and process trials.

Request a sample or specification

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