



**Mfg. of : Sodium Silicate (Alkaline + Neutral Glass & Liquid)**

**HS Code: 28391900**

**URL : [www.silchemindustries.in](http://www.silchemindustries.in)**

### Profile

'**Silchem Industries**' Was Established In The Year Of 2008, With Vision Of High Quality Product And Focused On Customer.

Company Has Grown To Three Manufacturing Units. '**Silchem Industries**' Is Specialized In Manufacturing And Supply Of Sodium Silicate (Alkaline & Neutral Grade)

### About The Owner & Our Team

'**Silchem Industries**' Is Rapidly Growing Under Experience Leadership Of **Mr. Kaushik Kaneriya** And **Mr. Amit Kaneriya**.

Innovative And Expansion Focused Leadership Has Strong Support Of Dedicated Team Of Quality Managers, Research And Development Experts And Chemical Lab Experts.

'**Silchem Industries**' Has Emerged As Leading Sodium Silicate Manufacturer With Deep Knowledge Of Product And Excellent Business Strategies Of Leadership And Dedication Of Team.

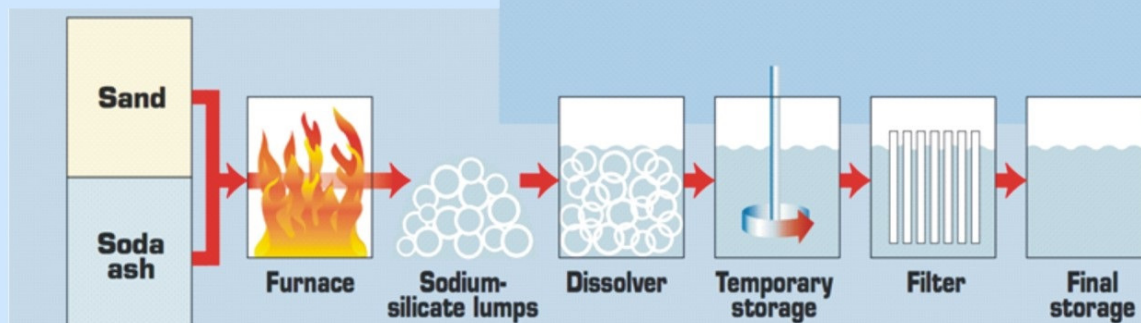
**Vision :** "Quality + Customer Satisfaction" = Our Business.

### Why Work With Us ?

- ▶ Large Production Capacity.
- ▶ Best Quality & Powerful R&D.
- ▶ Timely Delivery.
- ▶ We Listen, We discuss, We Advise.



### Sodium Silicate Mfg. PROCESS



## Sodium Silicate (Alkaline Liquid & Glass)



### Uses of Sodium Silicate

Detergents/Cleaning Compounds.  
Adhesives/Binders.  
Construction/Cements.  
Films and Coatings/Paper.  
Water Treatment/Petroleum.  
Casting / Metal Industry.  
Ceramic Industries.  
Textiles.  
Sodium Meta Silicate.

### Product Details

- ▶ Sodium Silicate Products are manufactured as solids or thick liquids, depending on proposed use.
- ▶ Sodium Silicate is a versatile, inorganic chemical made by combining various ratios of sand and soda ash.
- ▶ The pure compositions are colorless or white, but commercial samples are often greenish or blue owing to the presence of iron-containing impurities.
- ▶ In Industry, the various grades of sodium Silicate are characterized by their SiO<sub>2</sub>:Na<sub>2</sub>O weight ratio.

## Sodium Silicate (Neutral Liquid & Glass)



### Uses of Sodium Silicate

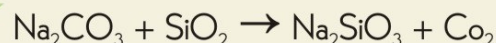
Precipitated Silica  
Silica Gel  
Colloidal Silica  
Water Proofing  
Paper Industries

### Product Details

Neutral is the generic name for a series of compounds derived from soluble sodium silicate glasses. They are water solutions of sodium oxide (Na<sub>2</sub>O) and silicon dioxide (SiO<sub>2</sub>) combined in various ratios. Varying the proportions of SiO<sub>2</sub> to Na<sub>2</sub>O and the solids content results in solutions with differing properties that have many diversified industrial applications.

Sodium silicate Neutral glass is made by fusing high purity silica sand and soda ash in open hearth furnaces at 1300° C/2400° F. The molten glass is cooled, fractured, and charged into vessels where it is dissolved under pressure by hot water and steam. The various grades of liquid sodium silicate are produced by varying the alkali/silica ratio and the solids content.

### Chemical Formula of Sodium Silicate Process



### Packing

- ▶ 250 – 300 Kgs Plastic Drums
- ▶ Full Tanker
- ▶ 1 Ton Bag
- ▶ Bulk Shipping By Truck (Glass Only)

## Technical Specification Reports

### Sodium Silicate Liquid

Chemical Compound	Alkaline Grade		Neutral Grade		
Type	52 Baume	56 Baume	30 Baume	32 Baume	40 Baume
Na <sub>2</sub> O	14.52% +/- 0.5%	15.80% +/- 0.5%	6.30% +/- 0.5%	6.76% +/- 0.5%	8.60% +/- 0.5%
SiO <sub>2</sub>	32.00% +/- 0.5%	34.80% +/- 0.5%	20.80% +/- 1.0%	22.35% +/- 1.0%	28.40% +/- 1.0%
Total Solid	46.52% +/- 1.0%	50.60% +/- 1.0%	27.10% +/- 1.0%	29.11% +/- 1.0%	37.0% +/- 1.0%
Ratio	1:2.20 (Wt Ratio) +/- 0.1	1:2.20 (Wt Ratio) +/- 0.1	1:3.30 (Wt Ratio) +/- 0.1	1:3.30 (Wt Ratio) +/- 0.05	1:3.30 (Wt Ratio) +/- 0.1
Baume (Degree)	52 +/- 1.0	56 +/- 1.0	30 +/- 0.5	32 +/- 1.0	40 +/- 1.0
Sp. Gravity	1.560 +/- 0.02	1.630 +/- 0.02	1.260 +/- 0.02	1.285 +/- 0.02	1.380 +/- 0.02

### Sodium Silicate lumps(Glass)

Chemical Compound	Alkaline Grade	Neutral Grade
Appearance	Transperence low melting glass	Transperence low melting glass
PH ( 5 % Aqus soln)	11 to 12 PH.	11 to 12 PH
Na <sub>2</sub> O content	31.22 % +/- 0.25 %	23..24 % +/- 0.50 %
SiO <sub>2</sub> content	68.77 % +/- 0.25 %	76.75 % +/- 0.50 %
Total Solid	99.99 +/- 0.1 %	99.99 +/- 0.1 %
Ratio	1:2.20 (Wt Ratio ) +/- 0.1 %	1:3.30 (Wt Ratio ) +/- 0.1 %
Iron content	250 % +/- 100 ppm	200 ppm max
Unmelted sand	1 % +/- 0.2 %	1 % +/- 0.2 %

NOTE: All Alkaline And Neutral Grades Of Liquid And Lumps (Glass) Are Only For Industrial Used.



QR CODE



Plot No.- 27, Rafaleshvar, G.I.D.C. N/H. 8-A,  
Morvi-363642 (Gujarat) INDIA.

Cell : +91 94290 96910, +91 98248 48345

Email : silchem.ind@gmail.com