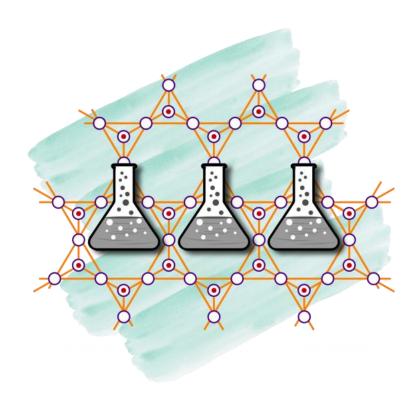


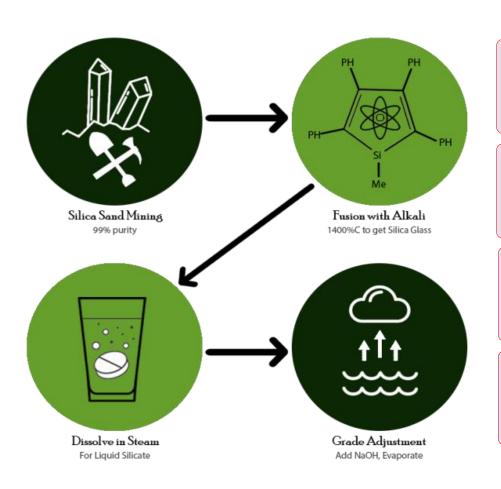
Clear Liquid Silicates

Liquid GREEN SILICATES





SILICATE - Conventional Process





Mining Intensive process with major raw material being Pure Quartz Silica.



Highly Energy Intensive process leading to higher cost & CO2 emission.



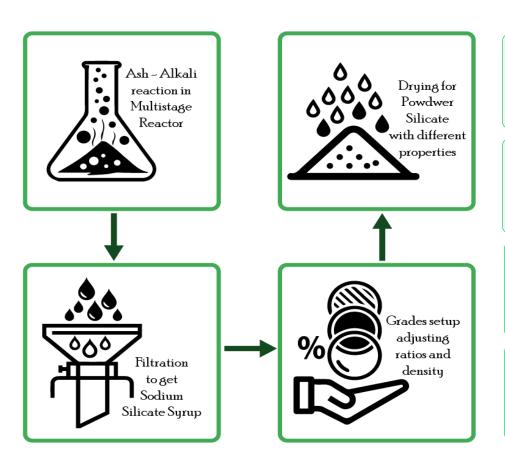
High viscosity, forms gelatinous skin. Difficult to Pump & Store.



Product contaminated with traces of heavy metals and other impurities.



GREEN SILICATE – Efficient Process





Circular Economy uses Rice Husk Ash – Agriculture Waste.



Energy Efficient process for minimum energy use.



Low viscosity, resists gelatinous skin formation. Easy to Pump and Store.



High Purity with no traces of Heavy Metal & other impurities.



TAMING the Magic Triangle

High Purity with Zero Heavy Metal and very low impurities.

Nature Friendly – Mined Raw Material replaced with waste rice husk Ash, uses less Energy.

Budget Friendly Offers very high purity at reasonable prices.





The THREE ALKALI SILICATES

Sodium - Na

Low Cost multi-functional,
versatile product.
Used in diversified
applications in concrete
hardening, corrosion inhibitor,
binding agent etc. Also used
as raw material for Silica
production. Their higher
alkalinity & efflorescence is
not desired in a few
applications.

Potassium - K

More expensive than Sodium.

Used in many binders and paints and crop care formulations (where sodium is not acceptable).

It is at times used in combination with Sodium & Lithium Silicates.

They shows lower efflorescence than Sodium.

Lithium - Li

Lithium silicates combines characteristics of silicates and colloidal silica & are expensive. Are least Alkaline Silicates
Provides excellent film forming & binding properties preferred in concrete surface treatment, specialty paints and coatings, refractory, ceramic and glazes.

All three silicates are made in various ratios, solid content and to certain extent viscosity. Each of them exhibit different property suitable for certain applications.

Si

Green Sodium Silicates

Grade	SiO2 : Na2O	Solid +/- 2%	Viscosity (cps)
GS – PURE	3.6	26 %	~95
GS – CORE	3.6	36 %	~100
GS – 3625	2.5	36 %	~105
GS – 4420	2.0	47 %	~115
GS – 4416	1.6	44 %	~120
GS – 4824	2.4	48 %	~190
GS – 4812	1.2	48 %	~180

- Custom Grades available for bulk requirement.
- High Viscosity product available on request (not recommended by us).



Green Potassium & Lithium Silicates

Grade	SiO2 :Alkali	Solid +/- 2%	Viscosity (cps)
Potassium Silicates			
GK- 25	2.5	29 %	~120
GK- 40	1.8	40 %	~135
Lithium Silicates			
GL- 25P	8.2	23 %	~20
GL- 30K	2.5	30 %	~60
GL- 27S	4.0	27 %	~60





CONSTRUCTION & BUILDING PRODUCTS

Concrete Surface Hardening / Waterproofing / Repairing

GS-PURE

GS-CORE

Soil Solidifiction & Stabilization

GS-PURE

GS-CORE

Acid Proof Cements, Grouting, Shortcrete etc.

GS-CORE

Wood / Plywood / Bamboo Fire retarding Lamination

GS-CORE

Users can play around with GS-3626 & GS-3636 in different concrete mix, mortar mix designs and evolve excellent performance.





REFRACTORIES

Furnace Cements for Boiler Settings, Kilns, Ovens, Hearths.

GS-4824

GS-CORE

Linings for Crucibles, Brass, Furnaces, Ladles etc.

GS-**4824**



PAINTS & COATINGS

As base ingredient in Mineral Paint formulations

GS-PURE

GS-CORE

Putty Mix for shine, finish, strength & water resistance. etc.

GS-PURE





CERAMICS

Slip Casting, Slurry Thinners, Clay Refining

GS-CORE

GS-**3615**

Binding for Abrasive Grit Material

GS-CORE



TEXTILES

Peroxide Bleaching, Wool scouring, Cleaning

GS-PURE

GS-**3625**

Pad batch dyeing acting as alkaline buffering agent for reactive dye,

GS-PURE





DETERGENT & SOAPS

Liquid Soaps, Detergents, Industrial Cleaning Compounds

GS-CORE

GS-4812

Hard Soft Soap Bars, Compounding Special Cleaners

GS-CORE

GS-**4824**

Spray Dried Detergents, Agglomerated Detergents

GS-4824

Soft Soap Bars, Diswash, High Alkalinity Cleaners

GS-**4812**

GS-4416

Choice of Silicate in Detergent & Soaps is dependent on complete product mix including the detergent/soap builder and desired outcome.





PAPER BOARD

Corrugated Paperboard, Solid Fiberboard, Wallboard

GS-CORE

GS-4824

Tube Winding, ImpregnationGrit
Material

GS-CORE



PAPER

Peroxide Bleaching of Pulp, Raw Water Treatment

GS-PURE

GS-CORE

Coatings & Adhesives

GS-CORE





METALS & MININGS

Sealing Porous Castings, Ore Floatation

GS-PURE

GS-CORE

Agglomerating Smelting Dusts, Pelletizing, Briquetting

GS-PURE

GS-CORE

Anti Rusting and Corrosion Prevention Coating

GS-CORE

Foundry Mould & Core Binder

GS-4824

In Mining application Silicate can also be used for Soil Stabilization.



Let's Talk Business

Looking for Consistent Quality
Silicate with stable Ratios?

Manufacturers of:

Detergent & Soaps, Construction, Tiles
& Pavers, Paints & Coatings, Paper &

Paper Boards, Refractory & Foundry,

Textile etc.

Everyone looking for top quality Liquid Silicates.



Sinthesis Greenchem Pvt Ltd.



149/N D.H.Road, KOLKATA-700034



si@sinthesisgreenchem.com



9527362736 / 6291057721



M7, MIDC, HINGNA, NAGPUR



www.sinthesisgreenchem.com