



SHREEJI CHEMICALS LTD.



# SHREEJI CHEMICALS LIMITED

## CORPORATE PROFILE



## WHO ARE WE ?

Shreeji Group has Well Renowned name in Business Excellence since 30+ years. We are 2000 people across the world reimagining chemicals, transportation, automobiles, Aviation, computers, Hardwares, construction and many more key segments. We began in Kenya in 1993 and since then we've grown into a leading manufacturer and service provider in the East African, central African and Mena region.



## OUR VALUES

High standards of Safety to ensure a safer environment for employees, environment and the wider society.

Core contribution in Human development and Excellence in Quality & Manufacturing.  
Generating the highest returns for our valued customer and stakeholders.

## VISION-2025

To be a major renowned manufacturer of Sodium Silicate in Africa, middle east and Europe from the largest manufacturer of East Africa and central Africa region.

## MISSION

Our mission is to evolve market needs, creating impactful & sustainable solutions, affordable & high-quality products, Customer delight with the power to grow you and make you feel proud of our mutual existence.



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## ABOUT US



Shreeji Chemicals Limited is an **ISO 9001:2015, GMP-ISO 22716 and SWP** certified leading manufacturer and of Solid Sodium silicate and Liquid Sodium silicate. We are also a reliable supplier and exporter of soap & detergent and Ceramic chemicals such as Caustic Soda Flakes, Caustic Soda Lye, Soda Ash Dense, Soda Ash light, Sodium Sulphate, Potassium Silicate, Ceramic Frit, Silica Sand, Labsa, SLES and so on in Africa, Middle east, Europe and Asia.

Shreeji Group was founded on **29th November 1993** in Nairobi, Kenya. Shreeji Chemicals Limited is a strategic business subsidiary of Shreeji Group initiated in **2009**. Within a few years of operations; Shreeji Chemicals Limited arises as a prominent global market leader in the field of solid sodium silicate and liquid sodium silicate with its affordable yet high-quality products, customer services, efficient supply chain, business trust of decades and reliability.





SHREEJI CHEMICALS LTD

## CURRENT PRODUCTION CAPACITY, PLANT LOCATIONS AND THE EXPANSION PLAN

Shreeji Chemicals Limited group is the largest manufacturer and exporter of Sodium Silicate in East Africa, Central Africa and Mena region with a total **annual production capacity of 450,000**

**Metric Tons of Sodium Silicate** clubbing 150,000 Metric Tons of Solid Sodium Silicate and 300,000+ Metric Tons of Liquid Sodium Silicate.

Shreeji Chemicals Limited has multiple and state of the art manufacturing plants/Factories and head/branch offices at Mariakani-Mombasa, Miritini, Changamwe,, Mlolongo-Nairobi, Thika, Mombasa town, Embakashi-Kenya, Jinja-Uganda and Dar-es-salaam-Tanzania. Upcoming Manufacturing plants are scheduled in Namamve-Uganda, Dar-es-salaam, Mkuranga-Tanzania, Sululta, Addis Ababa-Ethiopia and so on... All these manufacturing plants are equipped with modern equipment, latest cutting-edge technologies and an in-house R&D centre. Our Corporate Headquarters is located in Embakasi-Nairobi-Kenya, branch offices are in Miritini, Mombasa town, Jinja-Uganda and Dar-es-salaam-Tanzania. Due to continuous customer delight and rising market demand for Shreeji's product, we are expanding and setting up 5 new and well-equipped manufacturing facilities in Namanve-Uganda and Mukaranga-Tanzania, Dar-es-salaam-Tanzania, Sululta-Ethiopia and Addis-ababa-Ethiopia to achieve our vision to be the largest manufacturer of Sodium Silicate in Africa, Middle east and Europe in next 3 years.

**With Significant manufacturing capacity, promising quality, always available & ready to ship inventory and efficient supply chain we are able to supply Globally in any country having port and/or road network. Hence feel free to float your product inquiry at [sales@shreejichemical.com](mailto:sales@shreejichemical.com) .**

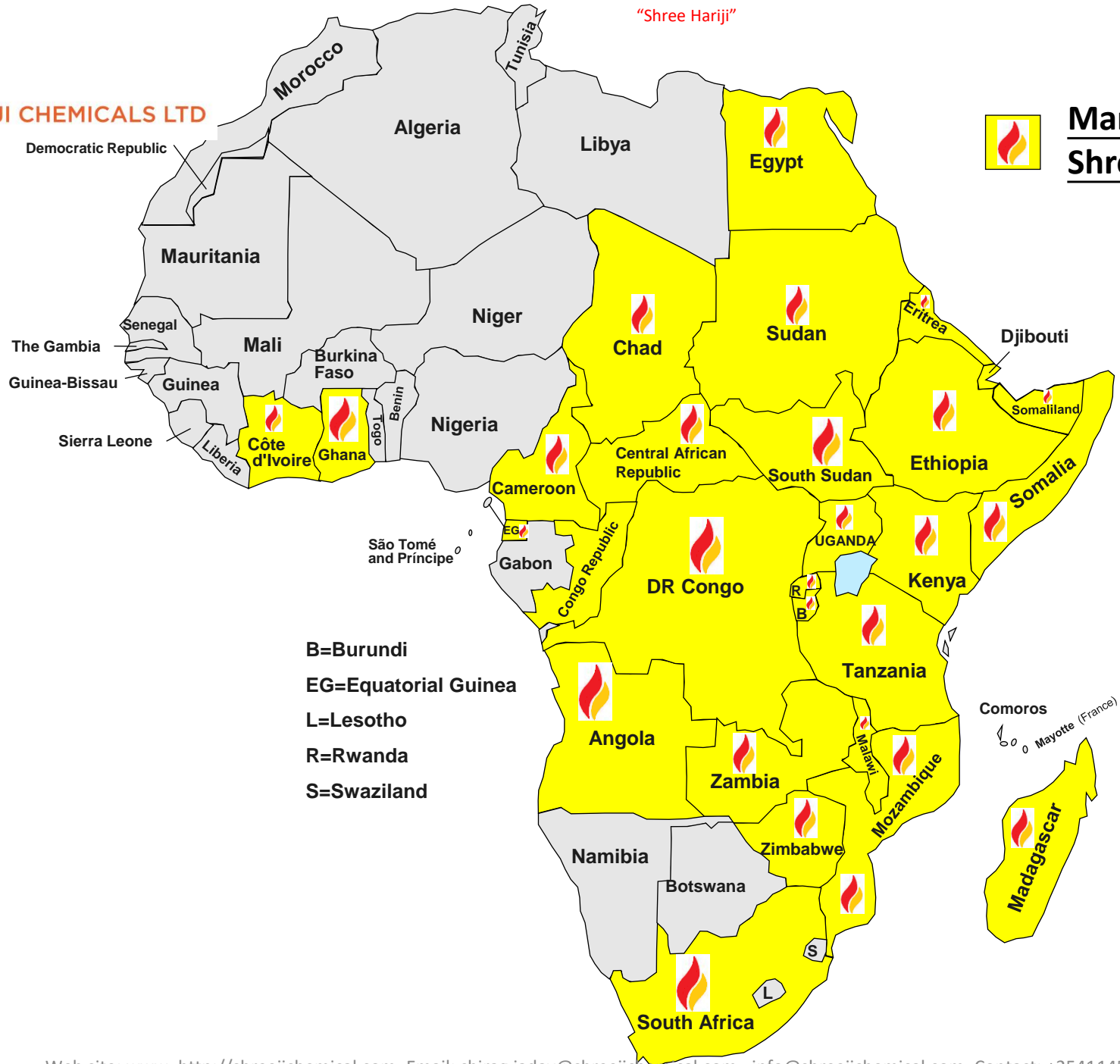


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**Market reach of  
Shreeji Chemicals Limited**



# Africa Political Map



# OUR PRODUCTS AND SERVICES

SHREEJI CHEMICALS LTD

## **(A) Chemicals & Minerals**

1. Solid Sodium Silicate (All Grades)
2. Liquid Sodium Silicate (All Grades)
3. Caustic Soda Flakes & Pearls
4. Soda Ash Light (Sodium Carbonate)
5. Soap & Detergent Raw Materials
6. Sodium Sulphate
7. LABSA, AOS, OT Paste
8. SLES & SLS
9. Ceramic Frit (All Grades)
10. Silica Sand
11. Potassium Silicate
12. Coal All types & Size
13. Iron Ore & Copper Ore
14. Tin Ore
15. Manganese ore



## **(B) Steel, Hardware and Construction**

- 1) Supply of Steel & Hardware
- 2) Construction Material
- 3) Execution of Green Field, Construction & Fabrication Projects

## **(C) Transportation & Warehouse**

1. Bulk & Packed Cargo Transportation across Africa
2. Warehouses & VMIs
3. Vessel offloading at Port

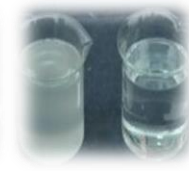


## **(D) Aviation**

1. Air cargo
2. Aircraft Maintenance
3. Aviation Management Solution

## **(E) I.T.C. & Way bridge Solutions**

- 1) Way bridge Supplier up to 100 Tons
- 2) Precision Scale & Lab equipment
- 3) Fleet Tracking System
- 4) ERP System
- 5) AMC of Way bridge & Factory equipment's
- 6) Site security Systems (CCTV, Electrical Fencing, AMS, networking).
- 7) AMC of ITC services across Africa.





# SODIUM SILICATE WITH MODE OF PACKAGING



SOLID SODIUM SILICATE	
PHYSICAL PROPERTIES	
Appearance	Solid Lumps/ Flakes/ Cullet/ Glass/ Rocks/ Crystal form
Colour	Clear to Light Blue
CHEMICAL PROPERTIES	
Chemical Formula	$\text{Na}_2\text{SiO}_3$
Molecular Weight	183 - 255
$\text{Na}_2\text{O} : \text{SiO}_2$ Ratio	1:1.6 to 1:3.5
$\text{Na}_2\text{O}$ % Range	22% to 38%
$\text{SiO}_2$ % Range	62% to 78%
Total Soluble Solids	99.5% +/- 0.5%
Weight Ratio	1:2 +/- 0.1
PACKAGING	
25 kg bags, 50 kg Bags, 1 Ton bags, Bulk Truck, Container load, Bulk Vessel	
<b>Note:</b> Above data is for reference. Special grades and packaging can be work out as per customer request and sizable quantity.	

LIQUID SODIUM SILICATE	
PHYSICAL PROPERTIES	
Appearance	Viscous Liquid
Colour	Clear to Bluish/Greyish Shade
CHEMICAL PROPERTIES	
Chemical Formula	$\text{Na}_2\text{SiO}_3 + \text{H}_2\text{O}$
$\text{Na}_2\text{O} : \text{SiO}_2$ Ratio	1:1.6 to 1:2.85
Specific Gravity	1.29 to 1.62
Baume	32 to 55
$\text{Na}_2\text{O}$ % Range	8 to 18 %
$\text{SiO}_2$ % Range	22 to 37 %
Total Solids Range	30% to 55%
Molecular Weight	183 - 255
PACKAGING	
MS Drums, Full Tanker Load, IBC Tanks, Jumbo Flexi Bags, Container Flexi Bags	
<b>Note:</b> Above data is for reference. Special grades and packaging can be work out as per customer request and sizable quantity.	








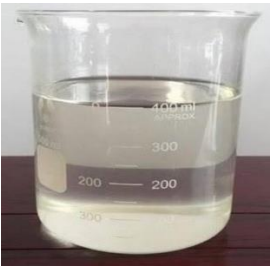


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# AVAILABLE PACKAGING OPTIONS

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PACKAGING OPTIONS FOR SOLID SODIUM SILICATE		
1	25kg and 50kg bags	
2	1Ton , 1.5Ton Jumbo Bags	
3	Bulk Truck Load	
4	Container load	
5	Bulk Vessel	
6	Special Packaging as per customer requirement	
PACKAGING OPTIONS FOR LIQUID SODIUM SILICATE		
1	10L, 15L, 25L, 50L Jerry Cans	
2	200L, 300L Metal, Plastic Drums	
3	ICB Tanks	
4	1Ton , 1.5Ton Jumbo Flexi Bags	
5	Bulk Tanker Load	
6	Container Flexi Bags	
7	Special Packaging as per customer requirement	

<div> <math display="block">\begin{array}{c} +\text{Na} \quad \text{O} \quad \text{O} \quad \text{Na}^+ \\   \quad   \\ \text{---} \text{Si} \text{---} \\   \quad   \\ \text{O} \quad \text{O} \end{array}</math> </div> <div>Available Types, Grades and forms of Sodium Silicate</div>						
Sr.	Form	Type	Synonyms	Grades	Description	Packaging
1		Solid Sodium Silicates	Sodium Silicate Glass, Sodium Silicate cullet, Sodium Silicate flakes, Sodium Silicate rocks, Sodium Silicate Lumps, Sodium silicate stones, Sodium Silicate Crystals, Solid water glass, Solid inorganic sodium salt	Alkaline grade with molar ratio of 1.5 to 2.85, Neutral grades with molar ratio of 2.9 to 3.5	Available in a variety of molar ratios from 1:1.5 to 1:2.85 in Alkaline grade and molar ratios from 1:2.9 to 1:3.5 in Neutral grade Customization is available as per Customer requirement.	25 kg bags, 50 kg Bags, 1 Ton bags, Bulk Truck, Container load, Bulk Vessel
2		Powder of Solids Sodium Silicates (Easy to Dissolve formula)	Sodium Silicate powder, Sodium Silicate salt, Grinded Sodium Silicate, Fine Sodium Silicate, Sodium silicate granules, grinded inorganic sodium salt	Alkaline grade with molar ratio of 1.5 to 2.85, Neutral grades with molar ratio of 2.9 to 3.5	Available in a variety of molar ratios from 1:1.5 to 1:2.85 in Alkaline grade and molar ratios from 1:2.9 to 1:3.5 in Neutral grade Customization is available as per Customer requirement.	25 kg bags, 50 kg Bags, 1 Ton bags, Bulk Truck, Container load, Bulk Vessel
3		Liquid Sodium Silicates	Sodium Silicate Solution, Water Glass, Dissolved Sodium Silicate, Sodium Silicate water, Sodium Silicate Gel, Sodium Silicate Slurry, Liquid inorganic sodium salt	Alkaline grade with molar ratio of 1.5 to 2.85, Neutral grades with molar ratio of 2.9 to 3.5	Available in a variety of, Baume (35 to 55), Specific Gravity, viscosities and weight ratios (Soluble Solid ratio). Customization is available as per Customer requirement.	MS Drums, Full Tanker Load, IBC Tanks, Jumbo Flexi Bags, Container Flexi Bags
Note: Above data is for reference. Special grades and packaging can be work out as per customer request and sizable quantity.						





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# WIDE APPLICATIONS OF SHREEJI'S SODIUM SILICATE

SHREEJI CHEMICALS LTD

Abrasive Wheels Absorbents  
Adhesives  
Asbestos Products  
Bar Soaps  
Beater Sizing of Paper Bleaching Textiles & Paper  
Boiler Compounds Brickmaking  
Briquetting  
Coal  
Glass  
Ores  
Buffering Agent  
Building Materials Acoustical Insulation Building  
Blocks Thermal Insulation  
Wallboard  
Cements  
Acid-Proof  
Chimney  
Furnace  
Refractory  
Spark Plug  
Stove  
Ceramics  
Cement Grouts  
Chemical Grouting Cleaning Compounds Coagulant  
Coatings  
Enamels  
Roofing Granules  
Welding Rods Concrete Cleaners Concrete  
Treatment Corrosion Control Corrugated Board  
Dairy Cleaners  
Deflocculation of Clays Dehumidifiers  
De-inking Paper Detergent Formulations

Dishwashing  
Drilling Fluids  
Mud Additive  
Silicate Base Muds Synthetic Muds  
Drum Washing  
Earthwork Construction Egg Washing  
Fiber Drums  
Fire-Resistant Paint  
Floor Cleaners  
Fly Ash Structural Materials Foil Laminating  
Foundry  
Cores  
Hot Tops  
Molds  
hits  
Fruit & Vegetable Peeling  
Ground Water Control  
Canals, Ponds, Waste Lagoons Sewer Sealing  
Shaft Tunnel & Mine Sealing  
Wells, Caissons, Irrigation  
Heavy-Duty Cleaning Hog Scalding  
Laminating Metal Foil Laundry Operations Leather  
Processing Liquid Detergents  
Lithographic Printing  
Magnesium Trisilicate Metal Cleaning  
Molded Articles  
Molecular Sieves  
Oil Reclaiming  
Oil Wells  
Cementing Casing for Later  
Recovery  
Corrosion Control Formation Cleaning Fracture Fluids

Heavy Shale  
Paint & Rubber Fillers Paint Removers  
Paints  
Paper Coating  
Paper Tube Winding Pelletizing Minerals  
Pigments  
Polishing Wheel Cemer Portland Cement Poultry  
Processing  
Radiator Compounds Release Agent  
Rust Removers  
Sealing Containers Sealing Metal Castings  
Secondary Oil Recover. Silica Gel  
Aerogel  
Hydrogel  
Xerogel  
Soap Conditioners Soap-Making  
Soil Solidification Solid Fiberboard Source for  
Silica Sols Space Vehicle Paint Steam Cleaning  
Synthetic Catalysts Synthetic Detergents  
Textile Processing Timed Fertilizers Tire Cleaners  
Titanium Dioxide  
Ultramarine  
Vegetable Oil Refining  
Washing Locomotives Water Clarification Water  
Treatment  
Wire Drawing  
Zeolite (Synthetic)  
Water Exclusion Workover Fluids  
Ore Flotation



# VARIOUS GRADES OF SODIUM SILICATES

VARIOUS GRADES OF SODIUM SILICATES						
Grade of Liquid Sodium Silicate	% Na <sub>2</sub> O	% of SiO <sub>2</sub>	% of H <sub>2</sub> O (Water)	Weight Ratio SiO <sub>2</sub> : Na <sub>2</sub> O	Gravity °Be @20°C	Viscosity Stormeitr Seconds @20°C
40 Unfiltered	9.10	29.20	61.70	3.22	41.50	75.00
40 Filtered	9.10	29.20	61.70	3.22	41.50	75.00
42 Unfiltered	9.30	30.00	60.70	3.22	42.50	140.00
42 Filtered	9.30	30.00	60.70	3.22	42.50	140.00
47 Unfiltered	11.20	31.90	56.90	2.84	47.00	250.00
47 Filtered	11.20	31.90	56.90	2.84	47.00	250.00
49 Unfiltered	12.40	32.10	55.50	2.58	49.00	230.00
49 Filtered	12.40	32.10	55.50	2.58	49.00	230.00
50 Unfiltered	14.70	29.40	55.90	2.00	50.00	122.00
50 Filtered	14.70	29.40	55.90	2.00	50.00	122.00
52 Unfiltered	13.90	33.40	52.70	2.40	52.00	640.00
52 Filtered	13.90	33.40	52.70	2.40	52.00	640.00

Note: Special grades can be work out as per customer request upon sizable quantity.





# SPECIFIC APPLICATIONS OF SHREEJI'S SODIUM SILICATES AND ITS BENIFITS

SHREEJI CHEMICALS LTD

## SPECIFIC APPLICATIONS OF SHREEJI'S SODIUM SILICATES AND ITS BENIFITS

Sr.	Area of Application	Sodium Silicate Grade	Use/ Property	Benifits
1	Abrasive wheels	40	Binding	Economical binder
2	Acid-proof cement	40, 42	Acid resistance	Economical -High performance
3	Adhesive formulations	40, 42, 47	Binder	Strong bonds Economical
4	Briquetting glass batch and coal	40, 42, 47	Binding	Reduce dusting
5	Coating formulations	40, 47	Film formation	Low cost -Fire resistant
6	Coating roofing granules	40, 42, 47, 50	Film formation	Fireproof - Water resistance Pigment binder
7	Corrosion control in water lines	40, 42, 50	Film formation	Reduces rust and lead
8	Deflocculating clays	40, 42, 47, 50, 52	Dispersing action	More fluid - Power reduction in brickmaking
9	De-inking paper	All grades	Deflocculating action	Whiter pulp
10	Drilling muds	40, 42, 50, 52	Colloidal	Stabilizing well bore
11	Engine coolants	40, 40 Clear	Corrosion inhibition	Protects radiators
12	Fiber drums	42	Adhesive - Fast set	and water pumps
13	Foundry molds and cores	49 FG, 47, 50, 52	Binding	High strength Fast set
14	Furnace and stove cements	50, 52	Binding	Plastic - Heat resistance
15	Hardening concrete	40, 42	Chemical	Dust-proofs — Longer life
16	Hot tops for steel ingot molds	40, 49 FG, 52	Binder	Economical binder
17	Kier boiling textiles	25, 40, 42, 30 Clear	Detergent	Whiter cloth — Better dyeing
18	Laminating paper and metal foil	40, 45, 47, 49	Adhesive- Fast set	High speed operation — Thin film application
19	Leak sealing compounds	42, 47, 50	Film forming	Economical — Rust inhibitor
20	Manufacturing of gels, catalysts, and molecular sieves	40, 42,	Chemical	Convenient silica source
21	Manufacture of soaps, detergents and industrial cleaners	40, 42, 49 FG, 50, 52, Anhydrous Metasilicate	Wetting and emulsifying action	Metal protection — Increased detergency
22	Manufacture of titanium dioxide	40, 42	Coats particles	Acid resistance Reduces chalking
23	Manufacture of ultramarine	40, 42,	Coats particles	Increased acid resistance of pigment
24	Metal cleaning	Anhydrous Metasilicate	Wetting and emulsifying action	Increased detergency
25	Ore flotation	40, 42, 47, 50, 52, Anhydrous Metasilicate	Deflocculating action	Improved separation
26	Paper beater sizing	40, 42	Formation of precipitates	Smooth, hard paper surface
27	Paper products	40, 42	Adhesive- Fast set	High strength board- Ready to use adhesive Imparts some fire resistance
28	Pelletizing minerals	40, 42	Binding	Fast set-Strong bond
29	Pulp bleaching	40, 40 Clear, 50	Buffering and sequestering agent	Conserves oxygen
30	Slurry thinner	40	Transport and handling	Improved transportation economics
31	Soil stabilization	40	Chemical	Increased load bearing-prevents foundation settling- prevents cave-in during construction



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# CONTACT US FOR BUSINESS INQUIRIES



## **Nairobi Manufacturing Plant:**

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SHREEJI GLASS UGANDA LTD.



SHREEJI SILICATE TANZANIA LTD.