



Noble  
Alchem

**SILICATES**  
**TITANATES**  
**MINERAL SANDS**



[www.noblealchem.com](http://www.noblealchem.com)

# About Us

Established since 1986, Noble Alchem is engaged in manufacturing wide range of SILICATES & TITANATES for various industries, catering to a wide spectrum of clientele.

## MISSION:

To become the most trusted and reliable supplier of SILICATES & TITANATES, to the best buyers in the world, always produce quality products, be sensible towards environment, and care about employees.

## INFRASTRUCTURE:

We are the largest manufacturer of Potassium Silicates & Titanates in INDIA.

With an installed capacity of 30,000 MT, we produce close to 20000 MT of SILICATES & TITANATE in our two manufacturing facilities strategically located at two different geographical locations in INDIA.

For Domestic Markets, we have intentionally developed our own fleet of tankers for bulk deliveries in shortest lead-time. It helps us in reducing the client's logistics & inventory cost and also ensures that the quality is not tempered during the transportation.

For Global Markets, we have done specific tie-ups with various shipping lines & agents to ensure the lowest freight charges, which makes us more competitive.

# Milestones

2018–2019

Installed drying facility for powdered Silicates with production capacity of 1200 M.T. Per annum

2014–2015

Production Capacity of Silicates enhanced to 30000 M.T. Per annum

Production Capacity of Titanates enhanced to 500 M.T. Per annum

2009–2010

Established 2nd plant at Indore (M.P.) with production capacity of 6000 M.T. Per Annum

Production Capacity of Potassium Titanate enhanced to 200 M.T. Per annum

Started Exports to U.S.A., MEXICO, KENYA, TANZANIA, EGYPT, SAUDI ARABIA, MALAYSIA, INDONESIA, PHILIPPINES, VIETNAM and other AMERICAN, AFRICAN & ASIAN markets.

2001–2002

Production Capacity of Potassium Silicate enhanced to 6000 M.T. Per annum

Started manufacturing of Potassium Titanate with production capacity of 50 M.T. Per Annum

1994–1995

Production Capacity of Potassium Silicate enhanced to 3000 M.T. Per annum

1986-1987

Established Bhiwani Unit for manufacturing of Potassium Silicate having production capacity of 1000 M.T. Per annum



# QUALITY CONTROL & ASSURANCE

Quality is our core strength. We believe "Quality is Religion".

To meet the highest Quality Standards, a team of young, highly qualified, dedicated and well experienced professionals are working throughout the process .

Quality Control on all products starts right at the raw material stage. Buyers that associate with us even once, stay with the company forever. This is a testimony of our firm commitment to quality & exceptional service.

We, at Noble, are committed to continually improving the effectiveness of the Quality Management System of the Organization.

We have installed the most modern machineries and best quality testing equipments like XRF, PSA, SEM, Viscometer etc. to ensure that only the specified goods, according to client's specifications, leave the plant.

## PACKING OPTIONS

- Tanker load
- IBC
- Drums
- Flexi Tank
- ISO Tank Container
- 25 KG HDPE / PAPER Bags
- Jumbo bags

■ Worldwide Satisfied Customers  
■ Manufacturing Facilities



**SEM**



**XRD**



**PSA**



**XRF**





# QUALITY CONTROL & ASSURANCE

Certificate No.: 001-04021 - Q

## Certificate of Approval

This is to certify that the Quality Management System  
at  
**Noble Alchem (P) Ltd.**  
5 KM Stone, VPO Haluwas, Dadri Road,  
Bhiwani - 127 021, Haryana, India.

has been examined by Assessors of **QMS International Certifications Pvt. Ltd.**  
and found to be conforming to the requirements of

### ISO 9001:2015

In respect of the following activities:

**Manufacture and Supply of Silicates & Titanates (Potassium,  
Sodium, Lithium, Zirconium, Calcium & Mixed)"**

Current Issue Date 06/12/2022, Valid till 27/02/2025\*  
Original Certification 17/03/2004

QMS International Certifications Pvt. Ltd.  
AFF-1, Shree Enclave, 47,  
Rajiv Gandhi Colony, New Delhi-110028,  
Bengaluru-560022, Karnataka, INDIA.  
E-mail: qmsindia@gmail.com  
Web: www.qmsindia.com

QMS International Certifications Pvt. Ltd.  
674 Kensington Terrace, Traralgon,  
Brisbane 4066, Queensland, Australia  
E-mail: qmsaustralia@gmail.com

  
**Sanjay Kumar Kaushik**  
**Managing Director**  
  
  
\* Subject to compliance with requirements specified in Service Specification & Agreement  
\* To check the validity of this certificate please visit www.jas-anz.org/register



**CHEMEXCIL**  
 मूल स्थापन, सौकर्यवर्धन तथा रोजगार विनिर्गत संवर्धन परिषद  
 (बसत संस्करण बणिज्य तथा उद्योग निकायन द्वारा संवर्धित)  
**BASIC CHEMICALS, COSMETICS & DYES EXPORT PROMOTION COUNCIL**  
 (Set up by Ministry of Commerce & Industry, Govt. of India)  
 518, 5th Floor, Annual Chamber - II, 6, Bhikaji Cama Place, New Delhi 110 066 India.  
 Tel: + 91 11 2616 0937 • Fax: + 91 11 2616 0931 • Email: rodam@chemexcil.gov.in  
 Web: https://chemexcil.in • CIN: U9110MH1962NPL012577

### Registration-Cum-Membership Certificate

1 Name of the Exporter	NOBLE ALCHEM (PVT) LTD.,		
2 IEC Number	3305001356		
3 Address of the Registered/ Head Office	H. NO. 5, M.C. COLONY, ROHTAK ROAD, BHIWANI-127021, Haryana		
Branch/Factory Catg Name	Name	Branch/Factory Address	
List Enclosed			
4 Date of Establishment	2001		
5 Description of goods/ services for which registered	Panel-II: BASIC INORGANIC AND ORGANIC CHEMICALS INCL. AGRO CHEMICALS		
6 Registration Number	CHEMDEL/SSMN-3/2019-20/182212 **		
7 Registered as:	** In continuation of their RCMC NO CHEMSSMN-1/2014-15/182212 dt. 07-04-2014		
8 Name of the Proprietor / Partner(s) Director(s) / Karta	Small Scale Manufacturer Exporter		
Name	Designation		
List Enclosed			

This Certificate is issued as per the details of our records and is subject to the conditions laid down in the relevant scheme of registration of this Council.

Renewed Upto: 31-03-2024  
Date of Issue: 14-05-2019

Signature:   
 Name: DR. J P TIWARI  
 Designation: REGIONAL DIRECTOR  
 Seal: 

For statements, if any please see attached sheets)  
 This certificate is valid for 5 years unless renewed / extended earlier. Subject to the condition that membership with Council is renewed from year to year.  
 This certificate covers all the product groups covered by this Council.

**HEAD OFFICE**  
 Jhans Castle, 4th Floor, 7 Cooperage Road, Mumbai 400 001 India. Tel: +91 22 2202 1298 • Fax: +91 22 2202 8684  
 E-mail: info@chemexcil.gov.in

  
**सरकार भारत**  
**Government of India / भारत सरकार**  
**Ministry of Commerce and Industry / वाणिज्य और उद्योग मंत्रालय**  
**Department of Commerce / वाणिज्य विभाग**  
**Directorate General of Foreign Trade / विदेश व्यापार महानिदेशालय**  
**Office of the Joint Director General of Foreign Trade, Panipat / संयुक्त महानिदेशक, विदेश व्यापार का कार्यालय, पानीपत**  
**O/o Joint DGFT, BSNL CSC Building, (Near City Police Station), GT Road, PANIPAT, HARYANA, 132103 / संयुक्त महानिदेशक, विदेश व्यापार का कार्यालय, बीएसएनएल सीएसबी बिल्डिंग, (सिटी पुलिस स्टेशन के पास), जीटी रोड, पानीपत, पानीपत, हरियाणा, 132103**  
**Email Office: panipat-dgft@nic.in, Phone Office: 0180-2650984/2651427**  
**मायका प्रमाण पत्र**  
**Certificate of Recognition**  
**एक सितारा निर्यात घर**  
**One Star Export House**  
**मेसर्स NOBLE ALCHEM PRIVATE LIMITED**  
**(आई ई सी 3305001356 और आयकर पैन AABCN3224D)**  
**को विदेश व्यापार नीति, 2015-20 के प्रावधानों के अनुसार एक सितारा निर्यात सदन का स्तर प्रदान किया जाता है। यह प्रमाण पत्र, प्रक्रिया पुस्तक (2015-20) में दी गयी शर्तों के निहित दिनांक 11/04/2023 से 30/09/2023 तक वैध होगा।**  
**M/s NOBLE ALCHEM PRIVATE LIMITED**  
**(IEC 3305001356 and Income Tax PAN AABCN3224D)**  
**are hereby accorded the status of 'One Star Export House' in accordance with the provisions of the Foreign Trade Policy, 2015-20.**  
**effective from 11/04/2023 to 30/09/2023 subject to the conditions prescribed in Hand Book of Procedures (2015-20).**  
**तारीख / Date 11/04/2023**  
**स्थान / Place HARYANA**  
**(अवधि / The No.) PNPSTATAPPLY00000001AM24**

35+

SINCE 1986

YEARS OF  
EXCELLENCE



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# PRODUCTS & SPECIFICATIONS

The welding electrode segment is growing very rapidly and we believe our products & technology offer the welding rod manufacturers, flexibility and value addition that gives them the edge in the market place.

Manufacturing of many industrial elements is based on Welding. To deliver the best quality industrial products, the quality of welded joints has to be perfect, which depends on welding rods and to do so, the manufacturer has to carefully select the welding additives to the composition.

## SILICATES

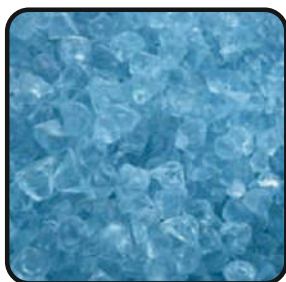
Today, silicates are often the main welding additives and their function widely exceeds that of a simple binder.

**Smooth Extrusion, Quiet Burning** and **Low Arc Spattering** are some of the attributes, which depend upon the quality of SILICATES.

We manufacture **Potassium, Sodium, Lithium** and **Mixed Silicates** of the highest purity.

Silicates are available as liquids, solids (lumps) and powders.

Our experienced specialists develop customized solutions to meet the requirement of our customers.



POTASSIUM SILICATE LUMPS	
Grade	K Silicate
Weight Ratio	2.0 to 2.1
K <sub>2</sub> O (%)	30 to 35
Na <sub>2</sub> O (%)	Nil
SiO <sub>2</sub> (%)	65 to 70
Mole Ratio	3.1 to 3.3
Total Solids	> 99%
Color	Transparent



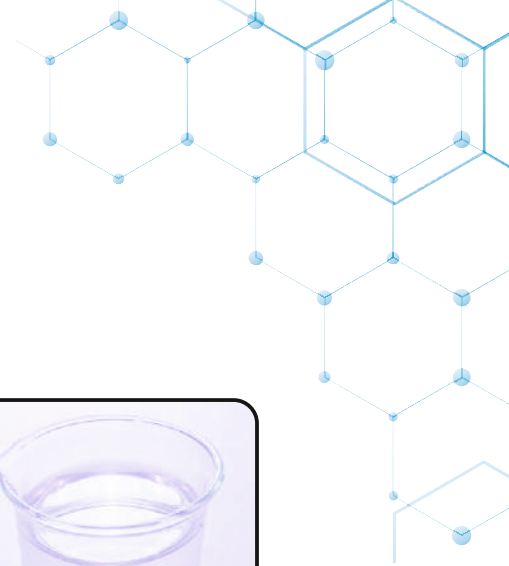
POTASSIUM SILICATE POWDER		
Grade	PSP-16	PSP-21
K <sub>2</sub> O (%)	35 to 40	27 to 30
Na <sub>2</sub> O (%)	Nil	Nil
SiO <sub>2</sub> (%)	54 to 58	56 to 62
H <sub>2</sub> O (%)	5% Max	10% Max
Weight Ratio	1.45 to 1.65	2.0 to 2.20
Solubility	< 100 Sec.	< 100 Sec.
Color	White	White







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POTASSIUM SILICATE LIQUID (REGULAR / PREMIUM)			
Grade	K-66	K-76	K-120
Weight Ratio	2.0 to 2.1	2.0 to 2.1	1.45 to 1.55
K <sub>2</sub> O (%)	10 to 12	12 to 14	18 to 20
SiO <sub>2</sub> (%)	20 to 24	26 to 28	26 to 28
Viscosity (cps)*	35 to 70	200 to 300	300 to 500
Sp. Gravity*	1.33 to 1.35	1.38 to 1.40	1.45 to 1.50
Baume*	36 to 38	39 to 41	45 to 49

\*at 30°C



SODIUM SILICATE LIQUID (REGULAR / PREMIUM)		
Grade	NA-80	NA-100
Weight Ratio	3.0 to 3.5	2.0 to 2.4
Na <sub>2</sub> O (%)	8.5 to 10	13.5 to 14.5
SiO <sub>2</sub> (%)	24 to 30	27 to 30
Viscosity (cps)*	200 to 300	100 to 200
Sp. Gravity*	1.37 to 1.42	1.45 to 1.50
Baume*	39 to 43	45 to 49

\*at 30°C

MIXED SILICATE LIQUID		
Grade	K Na	K Li
K <sub>2</sub> O (%)	6 to 7	10 to 12
Li <sub>2</sub> O (%)	-	0.5 to 1.0
Na <sub>2</sub> O (%)	4 to 5	1.0 to 2.0
SiO <sub>2</sub> (%)	26 to 28	26 to 28
Viscosity (cps)*	100 to 150	50 to 150
Sp. Gravity*	1.38 to 1.40	1.36 to 1.40
Baume*	39 to 41	38 to 41

\*at 30°C



LITHIUM SILICATE LIQUID	
Grade	LSL-25
Li <sub>2</sub> O (%)	2.50 approx.
SiO <sub>2</sub> (%)	20.50 approx.
Solids	23.00 approx.
Sp. Gravity*	1.20 approx.
Viscosity (cps)*	20.00 approx.
Weight Ratio	8.20 approx.

\*at 30°C





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# PRODUCTS & SPECIFICATIONS





## TITANATES

Our Potassium, Sodium & Mixed TITANATES are widely used in low hydrogen electrode, AC/DC electrode, stainless steel electrode and flux-cored wire.

These additive agents are included in flux formulations to:

- Enhance wear resistance in high temperature formulations that require chemical stability.
- Reduce arc voltage & provide arc stability.
- Reduce spattering.
- Provide fine welding line and enhance bonding characteristics.
- Improve slag mobility.

Our experienced specialists develop customized solutions to meet the requirement of our customers.

TITANATES				
Grade Parameter	Potassium Titanate	Sodium Titanate	Sodium Silico Titanate	Potassium Sodium Silico Titanate
Color	 White/Cream	 Yellow	 Grey	 Grey
TiO <sub>2</sub> (%)	74 to 80	75 to 85	57 to 63	43 to 53
K <sub>2</sub> O (%)	17 to 22	0.5 Max	0.5 Max	18 to 22
Na <sub>2</sub> O (%)	0.5 Max	12 to 20	10 to 15	3 to 7
SiO <sub>2</sub> (%)	1.0 Max	1.0 Max	23 to 28	22 to 27
S (%)	0.1 Max	0.1 Max	0.1 Max	0.1 Max
P (%)	0.04 Max	0.04 Max	0.04 Max	0.04 Max
H <sub>2</sub> O (%)	0.5 Max	0.5 Max	0.5 Max	0.5 Max
Mesh Size	Customized	Customized	Customized	Customized



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# PRODUCTS & SPECIFICATIONS

## MINERAL SANDS

Noble Alchem has developed itself into a renowned supplier of Natural Rutile Sand and Ilmenite sand, which are very versatile and are the key ingredients of welding electrodes.

We procure the best grades of Rutile & Ilmenite from global locations to feed the customers demand.



NATURAL RUTILE				
Parameter	Unit	T1-95	T1-92	T1-90
TiO <sub>2</sub>	%	95.0 Min.	92.0 Min.	90.0 Min.
Fe <sub>2</sub> O <sub>3</sub>	%	1.5 Max.	2.0 Max.	2.5 Max.
Al <sub>2</sub> O <sub>3</sub>	%	0.5 Max.	0.5 Max.	0.5 Max.
SiO <sub>2</sub>	%	1.5 Max.	2.5 Max.	3.0 Max.
Mesh		Result		
60		Nil		
-60		100%		



ILMENITE		
Parameter	Unit	T1-95
TiO <sub>2</sub>	%	50.0 Min.
Fe <sub>2</sub> O <sub>3</sub>	%	30.0 Min.
FeO	%	15.0 Min.
SiO <sub>2</sub>	%	2.5 Max.
Mesh		Result
60		Nil
-60		100%

Packing Option: 1 Ton Jumbo Bag