

POTASSIUM SILICATE GLASS (LUMP/CULLET)



POTASSIUM SILICATE GLASS

Potassium Silicates are a family of chemicals with a range of physical and chemical properties. The character of the products is determined by the ratio of silica to alkali and by the solids content. Although Potassium Silicates resemble Sodium Silicates in their basic composition, their industrial uses vary significantly. Potassium Silicates are water-soluble products of potassium oxide (K₂O) and silica (SiO₂) manufactured from potassium silicate glass, which is produced in furnaces by melting high purity sand with potassium carbonate. Potassium Silicates are alkaline and available in a range of SiO₂: K₂O ratio as liquids, flake glass and as spray-dried soluble powder for use in numerous industrial applications.

We have in house lab for testing all the parameters including purity and impurity. All our products are approved and we are an ISO 9001 2015 company and NABL Certified.

CHEMICAL IDENTIFIERS

Chemical name	–	Potassium Silicate Glass
CAS NO:	–	1312-76-1
Chemical Formula:	–	K ₂ O ₃ Si
Molecular weight	–	214.36 g/mol
EINECS Number	–	215-199-1
HSN code:	–	28391900
MDL Number	–	MFCD00145152
IUPAC Name	–	dipotassium; dioxido(oxo)silane
SMILES	–	[K+].[K+].[O-][Si]([O-])=O
Transport Information	–	NONH for all modes of transport

SYNONYMS

- Potassium Silicate Anhydrous; Dipotassium silicate; potassium silicon oxide;
- 10006-28-7; Dipotassium dioxido(oxo)silane; Silicic acid (H₂SiO₃),
- dipotassium salt;
- AC1LANJJ; Dipotassium oxosilanediolat

POTASSIUM SILICATE GLASS PROPERTIES

Grade		I	II	III
Parameter	Unit	PSG -2.0	PSG -2.2	PSG-2.5
Appearance	-	Clear Lumps with light blue color	Clear Lumps with light blue color	Clear Lumps with light blue color
Weight. Ratio	-	2.00 ± 0.10	2.20 ± 0.10	2.50 ± 0.10
Molar. Ratio	-	3.1 ± 0.10	3.42 ± 0.10	3.9 ± 0.10
K ₂ O Content	%	30-35	31-33	27-29
SiO ₂ Content	%	65-70	66-69	68-70
Total Solid	%	99.0Min	99.5 Min	99.00 Min

Technical Data Sheet (TDS):

[Download](#)

[TDS-PSG-2.20](#)

[TDS-PSG-2.22](#)

[TDS-PSG-2.50](#)

[Customized Silicates](#)

Can't you find what you are looking for?

We are happy to work with you to adjust our products to fit your specific needs!

HEALTH & SAFETY INFORMATION

Signal Word	Danger
Hazard Statements	H315-H318-H335
Precautionary Statements	P261-P264-P271-P280-P302+P352- P305+P351+P338 P310-P332+P313-P362-P403+P233-P405-P501
Hazard Codes	Xi ,C
Risk Codes	N/A
Transport Information	NONH for all modes of transport
GHS Pictogram	

SAFETY DATA SHEET (SDS)

To get details of safety data sheet, please click on [SDS of Potassium Silicate Glass to download](#)

MAIN APPLICATION

- Textiles (Fiber & Fabric Manufacturing
- Painting (Pigments, Binders, and Biocides
- Working with Glues and Adhesives
- Catalysts, silica gels, detergents, bleaching paper and textiles, ore treatments, foundry molds, and drilling fluids; waterproof cement and as a fireproofing agent;.

TESTING FACILITY

All the parameters are tested in our in-house Laboratory using process issued by Bureau of Indian standard (BIS). The instrument used in testing process are calibrated All our products are approved and we are an ISO 9001 2015 company, NABL Certified .