

POTASSIUM SILICATE

Technical Grades

PRODUCT

Potassium Silicate

Grades PS1; PS 1 HS; PS2; PS3; PS4; PS5; PS6; PS7

Available in various silica/potassium oxide ratios and concentrations.

CAS # 1312-76-1

DESCRIPTION

Technical grade potassium silicates are water-soluble compounds primarily used in industrial applications. It's a combination of potassium oxide (K₂O) and silicon dioxide (SiO₂), resulting in a highly alkaline solution with a pH between 11 and 12. Available in various silica/potassium oxide ratios and concentrations. It's known for its adhesive and water-repellent properties, making it useful in various applications like , concrete densification, wood treatments, welding rods, metal cleaning products as a corrosion inhibitor and a binder in industrial coatings and paints. It is also used in detergents, papermaking and water treatment.

APPLICATIONS

- Raw material used as a binder and catalyst for:
- Inorganic paints, coatings and primers
- Anti-corrosive coatings
- Powder coatings
- Refractories
- Catalysts
- Concrete admixture
- Concrete surface treatments
- Welding rod binder additive
- Flame retardant
- Ceramics, glazes and enamels
- Adhesive Coatings
- Antifreeze formulations

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toll free: +1 (352) 432-1481
e: support@asgchemie.com

APPEARANCE

Clear colorless liquid, water-based solution. Alkaline

SPECIFICATION

GRADES	Wt. RATIO SiO ₂ :K ₂ O (+0.05)	Wt. %		DENSITY (Kg./Ltr.)	SOLIDS%	VISCOSITY (Sec.B4)
		K ₂ O (+0.50)	SiO ₂ (+0.30)			
PS1	2.20-2.30	9.00	20.0	1.25-1.30	29.0-30.0	12-15
PS1 HS	2.10-2.30	13.00	28.00	1.39-1.40	40.5 - 41.5	35-40
PS2	2.0-2.10	13.00	27.0	1.35-1.40	40.0-41.0	16-17
PS3	1.80-1.90	14.50	26.5	1.37-1.40	40.5-41.5	17-18
PS4	2.10-2.20	11.50	24.0	1.30-1.35	36.0-37.0	15-16
PS5	2.48-2.52	8.25	20.6	1.24-1.27	29.0-30.0	14-16
PS6	2.50-2.60	7.60	20.00	1.22-1.25	28.0-29.0	13-15
PS7	2.52-2.56	8.45	21.30	1.25-1.27	29.0-30.0	13-15

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PACKAGING

Available in 55-gallon polyethylene drums, 275-gallon IBC totes and bulk flexi tanks. Further packaging options may be available upon enquiry

SHELF LIFE AND STORAGE

Product should be stored in a cool and dry place in sealed, original containers away from direct sun light. Providing the product is kept in the original packaging, the shelf life is 12 months. Observe caution when handling corrosive materials.

SAFETY

Please consult the material safety data sheet (MSDS) for safety and handling precautions

LIMITED WARRANTY INFORMATION

PLEASE READ CAREFULLY.

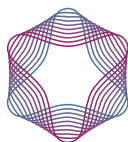
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For more information or answers to questions about the use in specific applications, contact your Technical Sales Representative or call 1-833.ASG.CHEM. (1.833.274.2436).

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Bulk Chemicals and Specialty Performance Materials

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