



Potassium Silicate Anhydrous

CAS No.: 1312-76-1

Chemical Formula: K_2SiO_3

Potassium silicate anhydrous is a fine, white powder. When dissolved in water, it forms a hazy, colorless colloidal solution. It is valued for its binding, chemical stability, and high silica content, making it suitable for multiple industrial applications.

KEY FEATURES

- High modulus silicate options (2.3–2.5 and 3.2–3.4)
- Rapid dissolution (<60–120 minutes depending on grade)
- Fine white powder with controlled apparent density
- Versatile use in adhesives, cements, refractories, drilling, geopolymers, and water treatment

APPLICATIONS

- Adhesives & binders
- Cement & construction materials
- Drilling fluids and geopolymers
- Agriculture
- Water treatment formulations

TYPICAL SPECIFICATIONS

Property	PSA-II	PSA-V
Appearance	Fine white powder	Fine white powder
Modulus ($SiO_2:K_2O$)	2.30 – 2.50	3.20 – 3.40
SiO_2 (%)	48.0 – 54.0	57.0 – 63.0
K_2O (%)	31.0 – 35.0	26.0 – 30.0
Rate of Dissolution (min)	< 60	< 120
Apparent Density (g/ml)	0.50 – 0.80	0.50 – 0.80



**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

25 kg bags (15 MT / 20' container)

STORAGE

- Store in a cool, dry, and well-ventilated area
- Avoid contact with moisture before use
- Refer to the Safety Data Sheet (SDS) for detailed handling precautions

SAFETY & HANDLING

When handling, avoid dust formation and contact with eyes or skin. Use protective equipment in accordance with local regulations. Consult the SDS for full health and safety information.