

Product Information

Potassium Silicate

Product Description:

Potassium silicate is the name for a family of inorganic compounds composed of potassium oxide and silica. This product is manufactured from potassium silicate glass. It is available in various grades depending on the K₂O and SiO₂ mass ratio.

Applications:

Potassium silicate is used in wood treatment for protection against fire, horticulture as a source of potassium and silicon, metal cleaning products as a corrosion inhibitor. It is also used in detergents, papermaking, catalyst production and water treatment.

CAS No. :

1312-76-1

Specifications:

Parameters (units)	Specifications				
Grades	PS1	PS2	PS3	PS4	PS5
WT Ratio SiO ₂ :K ₂ O (± 0.05)	2.2 - 2.3	2.48 - 2.52	2.1 - 2.2	2.0 - 2.1	1.8 - 1.9
WT K ₂ O ± 0.50, approx. (%)	9	8.25	11.5	13	14.5
WT SiO ₂ ± 0.10, approx. (%)	20	20.6	24	27	26.5
Density (kg/m ³)	1.25 - 1.30	1.24 - 1.27	1.30 - 1.35	1.35 - 1.40	1.38 - 1.40
Solid content (%)	29 - 30	29.0 - 30.0	36 - 37	40 - 41	40.5 - 41.5
Viscosity, B4 (s)	12 - 13	14 - 16	15 - 16	14.5 - 15.5	19 - 20

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Packaging:

Material is available in 250 kg or 280 kg HDPE drums, 1300 kg IBCs and bulk flexi tanks. Further packaging options may be available upon enquiry.

Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging.

Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purposes only. Customers are responsible for testing and confirming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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