

Liquid Potassium Silicate (Standard Grade)

SPECIFICATION

Colour	:	Clear to whitish viscous liquid
Odour	:	Odourless or slight musty odour
K ₂ O	:	8.30 -12.70 % w/w
SiO ₂	:	20.8 – 26.50 % w/w
Solids	:	29.0 – 39.20 % w/w
Weight Ratio	:	2.10 – 2.50
Molar Ratio	:	3.29 – 3.92
pH	:	11.3 – 11.70
Specific gravity	:	1.25 – 1.38 at 25 °C

FEATURES, BENEFITS & APPLICATIONS

- a) Potassium silicate is more soluble and compatible with other ingredients than sodium silicate. It is used in various formulations like heavy duty detergents, soaps, etc.
- b) Compared to sodium silicate it does not form white carbonate film – efflorescence – on exposure to atmosphere. This makes them preferred choice in decorative coating, paints, etc.
- c) It is used as binder during production of welding rod, as soft violet flame of potassium is easier to see through during welding compared to blinding yellow flame of sodium.
- d) Potassium silicate is convenient source of potassium for plant nutrients.
- e) As it melts and flows at high temperature, it is used as binder in refractory mortar and specialty cements.
- f) Non tacky property makes it important additive in mortars, acid lining, etc.

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