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SODIUM SILICATE CAS #: 1344-09-8

DESCRIPTION

Sodium Silicate (Na_2SiO_3) is a colorless compound of oxides of sodium and silica. It has a range of chemical formula varying in sodium oxide (Na_2O) and silicon dioxide or silica (SiO_2) contents or ratios. It is soluble in water and it is prepared by reacting silica sand and sodium carbonate at a high temperature ranging from 1200 to 1400 C. Aqueous solution of sodium silicate is called water glass.

TECHNICAL SPECIFICATIONS

Appearance	: Colorless clear liquid
Baume at 20 °C	: 47 ± 1'
Specific gravity	: 1.54 - 1.57 gr/cm ³
Sodium Oxide Na ₂ O	: 14 - 16
Silicon Dioxide SiO ₂	: 29 - 32
W.Ratio SiO ₂ : Na ₂ O	: 2.0 - 2.1
Packing	: IBC Tanks

APPLICATIONS

Sodium Silicate is used as a deflocculant, which is a thinning substance. This compound is added to slip, which is a thin liquid clay used to attach pieces of unfired ceramics, or greenware. The addition of sodium silicate reduces the amount of water needed to make the slip, so there is less shrinkage during the firing process.

Beside ceramics industry it is widely used in many industrial applications, as a builder in laundry detergents, as a binder and adhesive in concrete industry, as a flocculant in water-treatment plants and in many other applications.

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