

Sodium Silicate from Rice Husk Ash (Used in Adhesive, Drilling fluids, Concrete and general masonry treatment, Detergent auxiliaries, Water treatment, Refractory use, Dye auxiliary, Sealing of leaking water-containing structures) Manufacturing Plant, Deta

Description:

Sodium silicate is used as raw material for several purposes: silica gel production, preparation of catalysts, inks, load for medicines, concrete hardening accelerator, component of detergents and soaps, refractory constituent and deflocculant in clay slurries.

Technology for rice husk ash (RHA) to sodium silicate Today rice husk is used as industrial fuel. This leads to production of large quantity of rice husk ash (RHA). RHA is now used mostly as land fill.

Rice husk / hull ash (RHA) contains:

Biogenic Amorphous Silica

Carbon

Un-burnt rice husk / hull

Sodium silicate products are manufactured as solids or thick liquids, depending on proposed use. For instance, water glass functions as a sealant in metal components. Finally, even though, sodium silicate manufacture is a mature industry, there is current research for new applications given its heat conductive properties.

The future demand for sodium silicate is a function of growth of the end-user industries, mainly soap and detergent factories, pulp and paper mills, paint, pigment and adhesive factories.

What are the properties of Sodium silicate?

Sodium silicate is a white powder that is readily soluble in water, producing an alkaline solution.

It is one of a number of related compounds like, sodium ortho silicate, sodium pyro silicate, etc. All are glassy, colorless and dissolve in water.

Sodium silicate is stable in neutral and alkaline. In acidic solutions, the silicate ion reacts with hydrogen ions to form silicic acid, which when heated and roasted forms silica gel, a hard, glassy substance.

Liquids and solids based on sodium silicate and produced by PQCorporation have a density from 1.6g/cubic cm. to about 1.4 g/cubic cm.

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