

Sodium Silicate (Water Glass) Plant

Description of Sodium Silicate

There are two processes for sodium silicate production. The first one is reaction in liquid phase; the second one is reaction in solid phase. However, alkaline and quartz sand are the same raw materials used in the two processes.

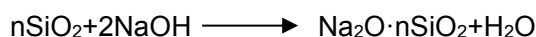
Uses of Sodium Silicate

We are experienced and have developed latest technology and machinery for sodium silicate production which is widely used in construction ,textile ,daily chemical and other industries.

Description of Liquid Phase

1. Process reaction in liquid phase:

Caustic soda, quartz sand and water are mixed in mixing tank, then the mixture is fed into a reactor, where steam is introduced. The reactant is liquid sodium silicate with its module lower than 3. The reaction is as following:



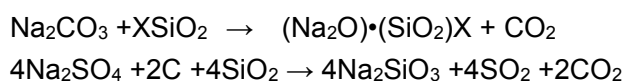
USAGE

Produce liquid sodium silicate , with the ratio 1.8-2.6, with the solution 40°Bé.

Description of Solid Phase

2. Process reaction in solid phase (thermal process)

The feed materials in this process are sodium carbonate and quartz sand, or sodium sulfate and quartz sand. The feed materials are heated in a reflection furnace. The reaction is as following:



The sodium silicate produced by this thermal process has the modules depending on requirements of different applications.

USAGE

Produce solid sodium silicate , with the ratio 1.9-3.5, with block form.



Asia Chemical Engineering Co.,Ltd



Contact: Yi Fei
Tel: +86-571-87228886
Mob: +8613600538853
Fax: +86-571-87242887
E-mail: asiachem@yatai.cn



Contact: Yi Fei
Tel: +86-571-87228886
Mob: +8613600538853
Fax: +86-571-87242887
E-mail: asiachem@yatai.cn