



Sodium Silicate

Description:

A transparent material with light blue-green colored, indefinite shape and dimensions, not easily dissolved in water, act easily grinded, turned into white powder when grinded. Dissolved under pressure in water. Its solution is alkali. In proportion with material amount in solution, viscosity increases. In the composition which consists of three SiO₂ molecules named as THREE MOLECULES whereas consists of two SiO₂ molecules named as TWO MOLECULES.

Standard No: TS4624

Physical and Chemical Specifications:

Structure of the Material	SOLID		LIQUID	
	Neutral	Alkaline	Neutral	Alkaline
Name	Sodium Silicate (3 Modules)	Sodium Silicate (2 Modules)	Sodium Silicate (3 Modules)	Sodium Silicate (2 Modules)
Color	Light (Blue-Green)	Light (Blue-Green)	Colorless (Transparent)	Colorless (Transparent)
Molecular Ratio	3.2 - 3.5	2.0 - 2.2	3.2 - 3.5	2.0 - 2.2
Sodium Oxide (Na ₂ O) (%)	22.5 - 24.0	31.70 - 33.80	23.0 - 24.5	32.5 - 34.0
Silicium Dioxide (SiO ₂) (%)	75.0 - 76.5	65.50 - 67.50	75.5 - 77.0	66.0 - 67.0
Aluminium Oxide (Al ₂ O ₃) (%)	0.4 max.	0.4 max.		
Iron (3) Oxide (Fe ₂ O ₃) (%)	0.05 max.	0.05 max.		
Calcium Oxide (CaO) (%)	0.06 max.	0.05 max.		
Titanium Oxide (TiO ₂) (%)	0.04 max.	0.03 max.		
Magnesium Oxide (MgO) (%)	0.10 max.	0.10 max.		
Potassium Oxide (K ₂ O) (%)	0.10 max.	0.10 max.		
Insoluble material in water (%)	1.0 max.	0.8 max.	-	-
Concentration Bé			38 - 40	38 - 40 48 - 50 58 - 60

Packaging:

Solid:

- In 50kg. double layer (polypropylene woven with + polyethylene in-liner) combined bag
- In laminated polypropylene (PP) big-bags with four loops, 1000 kgs each.

Liquid:

- In 220lt. Barrels
- In bulk

Control:

According to Soda Sanayii A.Ş. Soda Plant SODIUM SILICATE Control (analysis) Instructions.

Uses:

Detergent and soap, paper, textile, petroleum, chemical industries, concrete additives, silica derivatives production.



ŞİŞECAM

ŞİŞECAM is an establishment of TÜRKİYE İŞ BANKASI.

Determined specifications of our products is valid for conditions under our control.
Please refer to Material Safety Data Sheet of Sodium Silicate for handling, storage and end use.

Marketing and Sales: ŞİŞECAM CHEMICALS GROUP

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