



Certificate No. : 6709-001

Shree Jay Ambe

# Associated Finechem Pvt. Ltd.



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## Technical data sheet

# Sodium Orthosilicate

### Product Properties and technical data.

Chemical name: - Sodium Orthosilicate

Chemical HS number: - 28399090

Chemical Family: - Inorganic chemical

Chemical Formula: -  $\text{Na}_4\text{O}_4\text{Si}$

Molecular weight: - 184.040

CAS No: - 13472-30-5

Widely known as: - SOS, Orthosilicate, Tetrasodium silicate.

### General Specification:

SR No.	Characteristics	Specifications
1	Physical Appearance	White to off white granule and powder
2	$\text{Na}_2\text{O}\%$	57 % min
3	$\text{SiO}_2\%$	27 % min
4	Ratio $\text{Na}_2\text{O}:\text{SiO}_2$	1:0.5 +/- 0.3

All the parameters are tested using a process issued by Bureau of Indian standard (BIS). The instruments used in the process are calibrated by NABL acerbated labs.

### Other Grades of Sodium orthosilicate

1. Sodium orthosilicate powder.
2. Sodium orthosilicate granules.

### Application:-

Sodium orthosilicate is utilized as an interfacial tension-reducing additive in water flooding for enhanced oil recovery in oil fields. It also serves as a corrosion inhibitor by stabilizing ferrate films on iron and steel surfaces. Additionally, it functions as a degreasing agent in both industrial and domestic detergent formulations, suitable for solid and liquid detergents.

### Handling and storage:

The self-life of the material is 6 months. It is a highly hygroscopic material so once open the bag use the material all at once or repack/reseal the bag. Store in a cool and dry place away from direct sunlight. Preferable in a shed where there is no weather effect.

### Packing:

Double-bagged packaging consists of a 25 kg polypropylene (PP) woven bag with an inner PP liner, resulting in a total of four protective layers.

### Production Capacity:

We have a monthly production capacity of 50 MT.