



Certificate No. : 6709-001

Shree Jay Ambe

Associated Finechem Pvt. Ltd.



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Technical data sheet

Sodium Metasilicate Pentahydrate

Product Properties and technical data.

Chemical name: - Sodium metasilicate pentahydrate
 Chemical HS number: - 28391100
 Chemical Family: - Inorganic chemical
 Chemical Formula: - $\text{Na}_2\text{SiO}_3 \cdot 5\text{H}_2\text{O}$
 Molecular weight: - 212.14
 CAS No: - 10213-79-3
 Widely known as: - SMS $5\text{H}_2\text{O}$, Sodium metasilicate $5\text{H}_2\text{O}$.

General Specification:

SR No.	Characteristics	Specifications
1	Physical Appearance	White to off white granule and powder
2	$\text{Na}_2\text{O}\%$	28 % min
3	$\text{SiO}_2\%$	28 % min
4	Ratio $\text{Na}_2\text{O} : \text{SiO}_2$	1:1 +/- 0.1

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 metasilicate pentahydrate

1. Sodium metasilicate pentahydrate powder.
2. Sodium metasilicate pentahydrate granules.

Application:-

Sodium metasilicate reacts with acids to form silica gel. It is used in the paper industry as a sizing and stabilizing agent, in detergents as an emulsifier, and in automotive applications for engine decommissioning, cooling system sealing, and exhaust repair. It also stabilizes ferrate films for corrosion protection, preserves eggs by sealing them, and is used in crafts to form "stalagmites" by precipitating metal ions. Additionally, it serves as an adhesive known as "soluble glass."

Handling and storage:

The self-life of the material is 1 year. 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 bag (one bag inside another bag) 25 kg PP woven bag with PP linear inside. So total 4 layers of packing.

Production Capacity:

We have a monthly production capacity of 450 MT.