

SODIUM METASILICATE PENTAHYDRATE(5H₂O)



DESCRIPTION

Sodium Metasilicate Pentahydrate is a white, moist, crystalline powder or granules, highly soluble in water. It is a strong alkaline substance with a high pH value. This compound is widely used in various industries, including detergents, paper, and textiles, due to its excellent builder and alkalinity properties. It acts as a corrosion inhibitor, water softener, and binder in various applications, including detergents, water treatment, ceramics, and construction materials. It is used as a deflocculant and adhesive as well. This powder is preferred for its ease of handling, storage, and rapid solubility in various applications. It is widely used across multiple industries due to its powerful cleaning, binding, and alkaline properties.

CHARACTERISTICS

- High alkalinity
- Excellent solubility in water
- Effective builder and dispersant
- Versatile applications in various industries
- Excellent cleaning and degreasing properties

USES

- Paper industry- sizing and stabilizing agent
- Detergents- emulsifier
- Automotive- engine decommissioning, cooling system sealing, and exhaust repair
- Corrosion protection- stabilizing ferrate films
- Food preservation- sealing eggs
- Crafts- creating "stalagmites" by precipitating metal ions
- Adhesives- known as "soluble glass"
- Textile industry - It is utilized for bleaching, desizing, and as a deflocculant. It removes oil and dirt from the fabric acting as a powerful cleaning agent.
- Water treatment - It is used for softening and preventing scaling.
- Construction - it is used as a binder, hardener & accelerating agent.

PROPERTIES

Na ₂ SiO ₃ .5H ₂ O	
Characteristics	Specifications
Appearance	White to off white granular powder
Na ₂ O %	28% Min
SiO ₂ %	28% Min
Ratio	1:1±0.1

SHELF LIFE

The shelf life of the material is 1 year. It is a highly hygroscopic material, so once opened, use the material all at once or reseal the bag. Store in a cool, dry place, away from direct sunlight. Preferably in a shed where there is no weather effect.

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PACKING

25 Kg HDPE Bag

HANDLING PRECAUTION

- Prevent dust formation and inhalation. Wear protective equipment to avoid skin and eye contact.
- Ensure thorough washing after handling.
- Please ensure that storage is in compliance with relevant regulations, keeping containers sealed and labeled correctly.
- Avoid using aluminum containers, fittings, or transfer lines, as they may produce flammable hydrogen gas.
- Store away from incompatible materials.



IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour can change as per the prevailing conditions at the time of applications. Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use. The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.



✉ contactus@hindcon.com
☎ +91 33 24490839, 9830599113
☎ +91 33 24490849
📍 Kolkata, West Bengal, India

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