

## Sodium Hexametaphosphate (SHMP)

**Chemical Name:** Sodium Hexametaphosphate

**Chemical formula:**  $(\text{NaPO}_3)_6$

**Molecular weight:** 611.82

**CAS No:** 10124-56-8

**Properties:** White powder, relative density is 2.484 (20°C), easily soluble in water, but not in organic solution, absorbent to dampness, and turn sticky when absorbed dampness in air. It is possible to form solvent compound with metallic ions such as Ca, Ba, Mg, Cu and Fe; It is a fine agent for water treatment.

### Technical Specifications:

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| Appearance   | White powder  |
| Total phosphate, as $\text{P}_2\text{O}_5$ % $\geq$    | 68.0          |
| Inactive phosphate, as $\text{P}_2\text{O}_5$ % $\leq$ | 7.5           |
| Iron, as Fe % $\leq$                                   | 0.05          |
| pH of 1% water solution                                | 5.8-7.3       |
| Solubility   | Qualified     |
| Water insoluble % $\leq$                               | 0.05          |

**Application:** For industrial use, such as oil field, paper-making, textile, dyeing, petrochemical industry, tanning industry, metallurgical industry and building material industry, it is mainly used as a water softening agent in solution for printing, dyeing, and boiler; Diffusant in papermaking; retarding agent, floating agent, dispersing medium, high temperature agglomerant, detergent and soil analytical chemistry reagent. For food grade, it is mainly used as additive agent, pH adjusting agent and fermentation agent, and nourishment.

**Packaging:** Plastic-woven sack with inner polythene bag; Net weight: 25kg, 50kg or 1,000kg. Stored in ventilated and dry place.

It is assured that users of our products will themselves determine the suitability of these products for their own particular purpose, and it is stressed that the information given herein are suggestions for user's guidance only, and are not intended as recommendations, neither are any of the statements made to be construed as recommendations for the infringement of any patent.