

# CHEMATE TECHNOLOGY CO., LIMITED

ADD:NO.80 PUHUI ROAD,ZHENGZHOU CITY, HENAN PROVINCE, CHINA

TEL:0086-371-60921621

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## Technical Date Sheet (TDS)

**Product Name:** Sodium Hexametaphosphate

**Abbreviation:** SHMP

**CAS NO.:** 10124-56-8

**HS Code:** 28353919

**Molecular Formular:**  $(\text{NaPO}_3)_6$

**Molecular Weight:** 611.77

**Appearance:** White powder

**Sodium hexametaphosphate** is a kind of sodium phosphate polymer, which is usually white powder crystal or transparent glass flake in appearance. The SHMP chemical has strong hygroscopic property and will become sticky after hygroscopic. It is very easy to deliquescent in air and soluble in water with higher solubility and milder dissolution rate. Its aqueous solution is acid and easy to hydrolyze to phosphite. In addition, it has ability to form a soluble complex for some metal ions, so it can be used to soft water, as well as a wide range of uses in food processing and various industry fields.

Item	Industrial grade	Food grade
Total phosphate, as $\text{P}_2\text{O}_5$ %, $\geq$	68.0	68.0
Inactive phosphate, as $\text{P}_2\text{O}_5$ %, $\leq$	7.5	7.5
Iron, as Fe % $\leq$	0.03	0.02
Ph value (1% solution)	5.8-7.0	5.8-6.5
Water insoluble %, $\leq$	0.05	0.05
Heavy metals, as Pb % $\leq$	-	0.001
Arsenic, as As % $\leq$	-	0.0003
Fluoride as F % $\leq$	-	0.003



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## ● Sodium Hexametaphosphate Uses in Industries

1. Water treatment. It can be used as water softener for boiler water and industrial water, such as dye production water, printing and dyeing water, industrial circulation cooling water treatment agent. It can also be used as scale inhibitor in resin electrodialysis, reverse osmosis, nanofiltration and other water treatment industries.
2. In coated paper production industry, it can be used as slurry diffusing agent to increase penetration.
3. Used in washing vessels and chemical fibers to remove iron ions from the pulp.
4. Anti-rust for drilling pipes in the petroleum industry and control of viscosity of mud during oil drilling.
5. It can also be used as corrosion inhibitor, flotation agent, dispersant, high temperature binder, dyeing auxiliary, treatment of metal treatment, rust inhibitor, detergent builder, cement hardening accelerator.

## ● Sodium Hexametaphosphate Uses in Food

1. Water holding capacity. It can be used in meat products, fish sausage, ham and so on to improve the water retention, increase adhesion and prevent fat oxidation.
2. Anticorrosion performance. The aqueous solution of sodium hexametaphosphate can be sprayed on the cured meat to improve corrosion resistance.

## Packing & Storage:

25 kgs PP bags; 25 kgs Kraft Paper bags; Jumbo bags.

It should be stored in a cool and well-ventilated warehouse.

