

Food Grade SHMP (E452i) Specification

Sodium Hexametaphosphate (SHMP) | INS 452(i) | Food Grade

Version / Date: V1.0 / 2026-01-04

1. Product Identification & Compliance

Item	Description
Product Name	Sodium Hexametaphosphate (SHMP)
E-Number / INS	E452(i) / 452(i)
Grade	Food Grade (E452i); FCC documentation available upon request
Function in Foods	Stabilizer / Emulsifier / Sequestrant (application-dependent)
Appearance / Form	White powder or granular (food-grade packaging)
Packaging	25 kg inner-lined bag (custom export packing upon request)
Applicable Standards	GB 1886 series (food additive) and/or customer required specification

This specification provides typical values for food-grade SHMP intended for E452(i) applications. Final shipped-batch values are subject to the Certificate of Analysis (COA).

2. Key Specifications (Food Grade E452i) - Low Heavy Metals

Specifications	Standard (Food Grade E452i)
Total Phosphate (as P2O5)	68.0% Min
Inactive Phosphate (as P2O5)	7.5% Max
Arsenic (As)	≤ 3 mg/kg (3 ppm)
Lead (Pb)	≤ 1 mg/kg (1 ppm)
Fluoride (F)	≤ 30 mg/kg (30 ppm)
pH Value (1% solution)	5.8 - 6.5 (strictly controlled)
Water Insoluble	0.05% Max

Notes: Exact specification limits may vary by destination market and customer requirement. Please request the latest COA for exact shipped-batch results.

3. Typical Food Industry Applications

- Seafood & Meat Processing:** Supports moisture retention and texture stability during freezing/thawing and processing.
- Beverages & Juices:** Helps stabilize systems by sequestering metal ions and supporting clarity/mouthfeel (formula-dependent).
- Dairy Products:** Helps reduce protein precipitation and phase separation in certain processed dairy applications.
- Canned / Processed Foods:** Supports pigment stability and helps reduce discoloration related to metal ions.

4. Quality Assurance & Documents

- Batch-level quality control with COA for each shipment.
- SDS/MSDS available upon request.
- HALAL / KOSHER certificates and ISO 22000 / HACCP system documents can be provided for compliance review (upon request).
- Samples (200–500 g) available for laboratory testing (shipping terms per inquiry).

5. Packaging, Storage & Shelf Life

Packaging: 25 kg food-grade inner-lined bag (custom export packing upon request).

Storage: Store in a cool, dry, and clean environment. Keep sealed to avoid moisture absorption and contamination.

Typical shelf life: 24 months in original unopened packaging under proper storage conditions.

6. Contact

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