

SPECIFICATION

Product Name: Ferric/ Iron Pyrophosphate Food Grade
Chemical Formula: $\text{Fe}_4(\text{P}_2\text{O}_7)_3$
CAS Number: 10058-44-3
Molecular Weight: 745.21 g/mol
Appearance: A white free flow powder.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	Meets FCC requirement
Arsenic	mg/kg	0.67 mg/kg	Max. 3.0 mg/kg
Lead	mg/kg	Not Detected	Max. 4.0 mg/kg
Mercury	mg/kg	1.03 mg/kg	Max. 3.0 mg/kg
Assay (as Fe)	%	25.09%	24.0% to 26.0%

Physical Properties

- Solubility: Practically insoluble to very slightly soluble in water. Soluble in dilute mineral acids. Insoluble in ethanol. Insoluble in organic solvents.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, humidity, and direct sunlight. Keep the container tightly sealed when not in use to prevent contamination and maintain product quality.

Applications

- Use: Widely used as an iron fortification ingredient in food, beverage, nutraceutical, and pharmaceutical products. It is preferred for applications where minimal impact on taste, color, and odor is required.

- Dosage: Depends on the intended application, target population, and desired iron fortification level.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner, 1 kgs and 100 grams, or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.