Iron Pyrophosphate

$Fe_4(P_2O_7)_3 \cdot xH_2O$ · CAS 10058-44-3 · Micronized ferric pyrophosphate

INDICATIVE SPECIFICATION — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Micronized ferric pyrophosphate	$Fe_4(P_2O_7)_3 \cdot xH_2O$	10058-44-3	24.0–26.0% (ICP-OES)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
ICP-OES	1 kg	1–7 days	1 kg foil pouch

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Iron (Fe)	24.0–26.0% (ICP-OES)	Analytical
Appearance	White to yellowish, fine powder	Specification
Identification	Iron and pyrophosphate reactions conform	Specification
Loss on drying	≤5.0%	Specification
Particle size	Micronized, ≥95% through 200 mesh	Sieve
Bulk density	0.40–0.80 g/mL	Tapped cylinder
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	Specification
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	Specification
Marker set	Iron (24.0–26.0%, ICP-OES)	Identity / ratio
Appearance	White to yellowish, fine micronized powder	Visual
Solubility	Practically insoluble in water; dispersible in a powder blend.	Matrix dependent
Standard packaging	1 kg foil pouch · 25 kg fiber drum	Food-grade liner

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Functional beverages

AVAILABLE FORMS

- Micronized powder, 200 mesh
- Granulated on request

WHAT TO CONFIRM BEFORE ORDERING

- Name the iron species: ferric pyrophosphate is not ferrous fumarate or ferrous bisglycinate, and the elemental iron differs.
- The particle size is the functional specification; a coarse grade will not disperse or suspend the same way.
- Ask for the iron assay and the pyrophosphate identity; a generic iron figure is not enough.

- Iron can catalyse oxidation; the matrix, the pack and the sensory trial belong in the specification.

> **Indicative document.** This sheet describes the grade we can quote; it is not a batch COA and does not confirm a result for a specific lot. Final specification, contaminant limits and documentation are agreed in writing before the order. The form, hydrate state, ligand ratio and method are release parameters, not marketing descriptions.

DOCUMENTATION RELEASED WITH EACH LOT

DOCUMENT	CONTENT	SCOPE
Certificate of analysis	Assay, identity, physical parameters, contaminant panel and the release decision for the lot.	Batch-specific
Technical data sheet	Form, hydrate state, CAS, specification ranges, solubility, bulk density, storage and packing.	Product-level
Safety data sheet	Sixteen sections covering hazards, handling, storage, transport and emergency response.	Grade-specific
Allergen and GMO statements	Major allergens, gluten, animal-derived inputs and GMO status.	Batch-specific
Origin and traceability record	Manufacturing site and the link between the lot and the retained sample.	Batch-specific
Residual-solvent statement	The crystallisation system and the solvent class, where applicable.	Batch-specific

HOW TO REQUEST THIS GRADE

01 · BRIEF

Send the target specification, quantity, dosage form and destination market.

02 · COUNTER-SPEC

We confirm what can be matched and the documents available for the grade.

03 · SAMPLE & QUOTE

A sample with its own COA, followed by packing, lead time and terms in writing.

No claim is made here. This sheet does not claim a therapeutic effect, a product certification or a regulatory approval. Health claims belong to the brand that makes them and to the market that authorises them.

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