



TECHNICAL DATA SHEET

Ferrous Sulfate Heptahydrate

Product name: Ferrous Sulfate Heptahydrate

Chemical formula: $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

CAS number: 7782-63-0

Molecular weight: 278.01 g/mol

Supplier: Basekim Company

Product Description

Ferrous Sulfate Heptahydrate is a water-soluble iron salt supplied as green crystals. It is used as a source of iron in agriculture, animal feed, water treatment and industrial processes.

Typical Specification

Parameter	Typical Value
Ferrous Sulfate Heptahydrate	Minimum 98%
Elemental Iron, Fe	19–21%
Appearance	Green crystals
Water-insoluble matter	Low
Moisture	Controlled
Heavy metals	Grade-dependent limits
Solubility in water	Soluble
pH of aqueous solution	Approximately 3–4

Final values must be confirmed by the batch Certificate of Analysis.

Main Applications

Agriculture

- Correction of iron deficiency and chlorosis
- Fertilizer and micronutrient blends
- Turf and lawn treatment
- Moss control



Animal Feed

- Iron supplementation
- Mineral premix production

Only certified feed-grade material should be used in animal nutrition.

Water Treatment

- Phosphorus removal
- Sludge conditioning
- Odour-control processes

Industrial Uses

- Cement production
- Pigment manufacturing
- Chemical synthesis
- Reducing-agent applications

Main Features

- High ferrous sulfate purity
- 19–21% elemental iron
- Good water solubility
- Consistent crystal form
- Suitable for agricultural and industrial formulations
- Feed grade available with controlled heavy metals

Packaging

- 25 kg polypropylene bags
- Jumbo bags
- Palletised loads
- Full-container shipments

Packaging may be adjusted according to customer requirements.

Storage

- Store in a cool, dry and covered area.



- Protect from moisture and direct sunlight.
- Keep packaging tightly closed.
- Avoid prolonged exposure to air, which may oxidise ferrous iron.
- Keep away from oxidising chemicals and strong alkalis.

Shelf Life

Recommended shelf life: **12–24 months** in unopened original packaging under dry storage conditions.

Disclaimer

The values shown are typical and do not represent a guaranteed specification. Product quality, heavy-metal limits and suitability depend on the selected agriculture, feed or industrial grade. Refer to the current Certificate of Analysis for confirmed batch results.