

SPECIFICATION

Product Name: Dried Ferrous Sulphate IP Grade
Chemical Formula: FeSO_4
CAS Number: 7720-78-7
Molecular Weight: 151.91 g/mol
Appearance: Greyish white colour powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification			
Test A	-	Complies	Passes to IP test
Test B	-	Complies	Passes to IP test
Basic sulphate	-	Complies	NMT faintly turbied
Arsenic	PPM	Complies	NMT 3 PPM
Lead	PPM	Complies	NMT 50 PPM
Copper	PPM	Complies	NMT 50 PPM
Zinc	PPM	Complies	NMT 500 PPM
Manganese	-	Complies	Passes the limit test
Assay on dry basis	%	88.24%	86% to 90%

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry place at 15–25°C. Protect from moisture, air, excessive heat, and direct sunlight, as exposure may lead to oxidation and reduced product quality. Keep

the container tightly closed in the original, properly labeled container and store in a well-ventilated area to maintain stability.

Applications

- Use: Widely used as a source of elemental iron in pharmaceutical and nutraceutical formulations. It is commonly used for the prevention and treatment of iron deficiency and iron deficiency anemia. It supports hemoglobin formation, red blood cell production, and normal oxygen transport. It is widely incorporated into tablets, capsules, syrups, oral powders, and fortified nutritional products.

- Dosage: Depends on the therapeutic indication, patient age, iron status, and the elemental iron content of the finished formulation. It should be used according to product specifications or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner 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.