



North America's
leading producer
of Ferrous Sulfate
products



Dried Ferrous Sulfate Monohydrate

GENERAL

Diamond Brand® Ferrous Sulfate Monohydrate (FeSO₄·H₂O) contains the greatest amount of iron per ton (Fe-30%) when compared to other forms of Ferrous Sulfate and the least amount of interior water (one molecule or 15% by weight). Ferrous Sulfate is derived from the processing of ilmenite ore in the manufacture of the paint pigment titanium dioxide, or as a co-product from the pickling of steel.

We evaporate all exterior moisture from each crystal, and remove 6 of the 7 molecules of interior moisture, via rotary dryers, to produce a free-flowing Ferrous Sulfate Monohydrate. Diamond Brand Ferrous Sulfate Monohydrate is produced in either powder form (Standard), or is compacted and screened for uniformity at our Cape Girardeau, MO facility into coarse or fine granular forms.

APPLICATIONS

Diamond Brand Ferrous Sulfate Monohydrate is used as a feed supplement to prevent anemia caused by iron deficiencies in the diets of swine, poultry and other animals. The agricultural, lawn and garden, and turf management industries use Diamond Brand Ferrous Sulfate Monohydrate to correct iron chlorosis or deficiencies in plants and soils, to eliminate moss, to reduce alkalinity, and as a trace element or micronutrient in fertilizers. Our Diamond Brand Granular Ferrous Sulfate products are double screened and waxed coated for reduced dust and enhanced handling characteristics.

In addition, Diamond Brand Ferrous Sulfate Monohydrate is used as a reducing agent in the treatment of hazardous wastes, and as a coagulant and flocculent in the treatment of sewage waste, industrial effluents, raw drinking water and other wastewater sources. It is also used as a reducing agent in the removal of phosphates and odor causing hydrogen sulfide from various waste sources.



PHYSICAL PROPERTIES

Appearance

White Monoclinic Crystalline Water-Soluble Salt

Bulk Density

STANDARD: 55 Lbs./Cu. Ft.
FINE: 70 Lbs./Cu. Ft.
COARSE: 75 Lbs./Cu. Ft.

Sieve Analysis

STANDARD: 95% -16 / +100 mesh
FINE: 95% -14 / +30 mesh
COARSE: 95% -6 / +16 mesh

Dried Monohydrate will not compact or cake in transit or in storage as long as it is not exposed to free water or ambient temperatures in excess of 325° F.



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CHEMICAL PROPERTIES

Iron.....30% ± 0.5%
 Sulfur..... 18%
 Oxygen 37%
 Water 15%

PACKAGING AND TRANSPORT MODES

- 50 Lb. bags via truck or rail
- 2,000 Lb. bulk bags via truck or rail
- Bulk via truck or rail
- Custom valve-pack bags are available upon request

TYPICAL TRACE METALS (PPM)

Shipping Point	Cape Girardeau, MO	North Lima, OH
Arsenic	2	2
Cadmium	2	2
Chromium	30	20
Copper	20	20
Lead	30	30
Magnesium	9,600	1,000
Manganese	2,400	2,750
Nickel	50	85
Zinc	2400	2,000

Diamond Brand Ferrous (Iron) Sulfate products are registered in Canada as a Pest Control Product (PCP) under the Canadian PCP Act. In addition, our Diamond Brand Ferrous Sulfate Monohydrate is OMRI listed (as allowed with restrictions) and can be used in certified organic production.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Information regarding the contents and levels of metals in this product is available at www.agr.wa.gov.

