

Ferrous Sulfate Monohydrate, Dried



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. At QC Corporation, 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.

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	A 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
<i>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.</i>	

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. Super-Sacks Via Truck Or Rail
- ◆ Bulk Via Truck Or Rail
- ◆ Custom Valve-Pack Bags Are Available Upon Request

TRACE MATERIALS (MAXIMUM PPM)

Shipping Point:	Cape Girardeau, MO	North Lima, OH
Arsenic	1	1
Cadmium	2	2
Chromium	17	20
Copper	17	17
Lead	17	17
Magnesium	9,600	1,000
Manganese	2,400	2,750
Nickel	83	85
Zinc	700	2,000

QC's Diamond Brand® Ferrous (Iron) Sulfate products are registered in Canada as a Pest Control Product (PCP) under the Canadian PCP Act.

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 on the Internet at <http://www.wa.gov/agr/> or <http://www.qccorporation.com>



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