

North America's  
leading producer  
of Ferrous Sulfate  
products



## Dried Ferrous Sulfate Heptahydrate

### GENERAL

**Diamond Brand® Dried Ferrous Sulfate Heptahydrate** ( $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ ) is also called iron sulfate, green vitriol, or copperas. Ferrous Sulfate Heptahydrate 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, via rotary dryers, to produce a free-flowing Dried Ferrous Sulfate Heptahydrate, containing no exterior free water.

### APPLICATIONS

Diamond Brand Ferrous Sulfate products are 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. In addition, it is used as a reducing agent in the removal of phosphates and odor causing hydrogen sulfide from various waste sources.

The agricultural, lawn and garden, and turf management industries use Diamond Brand Ferrous Sulfate 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, it is used in the diets of swine, poultry and other animals as a feed supplement, to prevent anemia caused by iron deficiencies.



### PHYSICAL PROPERTIES

Dried Ferrous Sulfate Heptahydrate is free-flowing, has consistent iron, sulfur, water and oxygen contents, and goes into solution rapidly. Dried Ferrous Sulfate Heptahydrate has the tendency to compact and/or cake (becomes hard) under various shipping and storage conditions, particularly in extremely hot environments that exceed 75° F. We can add up to 2% calcium carbonate as an anti-caking agent.

#### Appearance

Blue-Green Monoclinic Crystalline  
Water-Soluble Salt

#### Bulk Density

65 Lbs./Cu. Ft.

#### Sieve Analysis

95% -16 / +100

*Please note that up to 2% of calcium carbonate can be added to this product as an anti-caking agent upon request. calcium carbonate is insoluble in water and can potentially clog filters or pumps.*



# Dried Ferrous Sulfate Heptahydrate

## CHEMICAL PROPERTIES

Iron.....	20% ± 0.5%
Sulfur.....	12%
Oxygen .....	22%
Water .....	45%

## PACKAGING AND TRANSPORT MODES

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

## TRACE MATERIALS (MAXIMUM PPM)

Shipping Point	Cape Girardeau, MO	Cape Girardeau, MO	North Lima, OH
Raw Material Source:	Steel Mill	Titanium Dioxide	Steel Mill
Arsenic	1	1	1
Cadmium	2	2	5
Chromium	50	11	30
Copper	6	11	15
Lead	12	11	17
Magnesium	500	6,400	127
Manganese	950	1,350	2,200
Nickel	123	55	121
Zinc	160	500	900

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 at [www.agr.wa.gov](http://www.agr.wa.gov).

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