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Liquid Ferric Sulfate Product Data Sheet

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Description

Penco's Ferric Sulfate is a dark maroon aqueous solution of soluble ferric iron, manufactured to strict specifications from high quality raw materials. Penco's unique manufacturing process renders a superior Ferric Sulfate that is stable at concentrations up to 13% ferric iron. Penco's Ferric Sulfate has a low ferrous iron content, reducing the likelihood of iron carryover throughout the system.

Application

Ferric Sulfate is manufactured for both municipal and industrial water treatment. Being an iron-based coagulant and having only trace amounts of aluminum, it is widely used for the clarification of drinking water. Ferric Sulfate is very effective as a coagulant in oily water clarification. It is excellent for turbidity control, as well as the removal of phosphorus, color, and suspended solids. Ferric Sulfate is widely used for sludge dewatering, as well, resulting in volume reduction. It is very effective at removing metals, especially arsenic and selenium.

Typical Analysis

Concentration (%Fe ⁺³).....	10 – 13%
Concentration (%Fe ⁺²).....	<0.5%
Specific Gravity.....	1.5 – 1.6
Free Acid.....	<0.5%
pH.....	<2.0
Appearance.....	Dark Maroon
Freezing Point.....	<0°F

Health and Safety

Ferric Sulfate can cause irritation and burns to the skin and eyes. Ensure that individuals handling Ferric Sulfate have been fully trained regarding the MSDS, along with PPE requirements and specific operational procedures. In the event of an emergency, call 24 hr. CHEMTREC: 800-424-9300.

Certifications

Ferric Sulfate is ANSI/NSF Standard 60 certified for use in potable water treatment and also meets or exceeds all AWWA standards.

Product Handling and Shipping

Ferric Sulfate is shipped in railcars, tank trucks, totes, and drums. Suitable materials of construction include fiberglass, PVC, polypropylene, polyethylene, and stainless steel. It can be used with diaphragm metering pumps, providing the materials of construction are compatible. No dilution or preparation necessary.

DOT Classification: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Ferric Sulfate)

Hazard Class: 8 DOT ID Number: UN 3264 Packing Group: III

RQ = 1000 Lbs.

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