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Product Data Sheet Ferric Chloride Solution

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Description

Penco's Ferric Chloride 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 Chloride that is stable at concentrations up to 14% ferric iron. Penco's Ferric Chloride has a low ferrous iron content, reducing the likelihood of iron carryover throughout the system.

*A Ferric Chloride product with low manganese content (<50 ppm) is available upon request.

Application

Ferric Chloride 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 Chloride is very effective as a coagulant in oily water clarification. It is excellent for turbidity control, as well as the removal of phosphorus, color, TOC's and suspended solids. Ferric Chloride is widely used for sludge dewatering, as well, resulting in volume reduction. It is very effective at removing arsenic and selenium.

Typical Analysis

Concentration (%Fe ⁺³).....	10 – 14%
Concentration (%Fe ⁺²).....	<0.5%
Specific Gravity.....	1.35 – 1.6
Free Acid.....	<0.5%
pH.....	<2.0
Appearance.....	Dark Maroon
Freezing Point.....	<0°F

Health and Safety

Ferric Chloride can cause irritation and burns to the skin and eyes. Ensure that individuals handling Ferric Chloride 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 Chloride is NSF/ANSI Standard 60 certified for use in potable water treatment and also meets or exceeds all AWWA standards.

Product Handling and Shipping

Ferric Chloride 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: Ferric Chloride Solution

Hazard Class: 8 DOT ID Number: UN 2582 Packing Group: III

RQ = 1000 Lbs.

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