# Ferric Chloride

FeCl | About 40% solution; anhydrous 96–98%

## PRODUCT OVERVIEW

Ferric chloride, the iron coagulant for drinking water and wastewater, phosphate removal, sludge conditioning and etching. Corrosive to metals and causes serious eye damage: use HDPE, FRP or rubber-lined equipment and keep it apart from alkalis and hypochlorite.

## TYPICAL SPECIFICATION

| Characteristic | Units | Typical value | Test method |
|---|---|---|---|
| FeCl (solution) | - | **38–42%, typically 40%** | Titration |
| Total iron as Fe (solution) | - | **About 13.5–14.5%** | Titration / ICP |
| Ferrous iron ($Fe^{2}$) | - | **0.5% max, typically far lower** | Permanganate titration |
| Free acid (as HCl) | - | **1% max, typically 0.3–0.5%** | Titration |
| Water-insoluble matter | - | **0.2–0.5% max** | Gravimetric |
| Density at 20 °C (40%) | - | **1.40–1.44 g/cm³** | Hydrometer |
| FeCl (anhydrous) | - | **96–98% min** | Titration |
| Appearance | - | **Dark red-brown liquid; anhydrous: black-brown crystals** | Visual |

## SUPPLY AND PACKING

UN-approved HDPE drums, IBCs and rubber-lined ISO tanks for the solution; sealed drums for anhydrous. Shipped as class 8 dangerous goods (UN 2582 solution, UN 1773 anhydrous, PG III). FOB, CFR and CIF on request; pack sizes and loads are confirmed with each offer.

## DOCUMENTATION

Every shipment includes a Certificate of Analysis. Certificate of Origin and MSDS are available on request. Destination-specific import or phytosanitary documentation is confirmed where applicable.

## NOTICE

Values are typical and published for reference; they are not a certificate of analysis. Agree the specification of the offered batch, the packing and any destination requirements before ordering.