

# Global Ferric Chloride as Etchant Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Ferric Chloride as Etchant market size is expected to reach \$ 725 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, sales of ferric chloride for etchant reached 769,000 tons, with an average price of \$588 per ton.

Ferric chloride also called as iron chloride is a commodity chemical which is rarely observed in its natural form. As an etching agent, Ferric chloride has been widely used in the world, including its application in metal surface treatment and the production of printed circuit board.

The core raw materials for ferric chloride used in etching are iron and hydrochloric acid. The mainstream production process involves the direct reaction of iron plates (or iron sheets) with hydrochloric acid, or the reaction of iron oxide scale (a byproduct of steel rolling) with hydrochloric acid. Iron oxide scale, a waste product of the steel industry, is inexpensive and readily available. Its main components are ferrous oxide (FeO), ferric oxide (Fe<sub>2</sub>O<sub>3</sub>), and magnetite (Fe<sub>3</sub>O<sub>4</sub>), which react with hydrochloric acid (Fe<sub>2</sub>O<sub>3</sub> + 6HCl > 2FeCl<sub>3</sub> + 3H<sub>2</sub>O) to produce a ferric chloride solution. High-purity electronic-grade products require high-purity iron powder or electrolytic iron as the iron source, along with ultra-pure hydrochloric acid to ensure that the heavy metal impurity content is below ppm. In addition, some companies use chlorine oxidation (oxidizing ferrous chloride solution with chlorine to ferric chloride) or by-product recovery (regenerating and recovering from etching waste liquid) as supplementary raw material sources.

In the cost structure of ferric chloride for etching, raw material costs account for the largest proportion (approximately 50-60%), with fluctuations in hydrochloric acid prices

significantly impacting costs, as each ton of ferric chloride requires approximately 0.8-1.0 tons of 30% hydrochloric acid. The cost of iron source materials (iron plates or iron oxide scale) is relatively low, accounting for approximately 15-20% of the total cost. Energy costs (steam concentration, reaction heating) account for approximately 15%, mainly used for solution concentration and crystal water control; environmental treatment costs account for approximately 10-15%, including waste gas (acid mist) absorption, waste liquid treatment, and heavy metal removal processes; this cost is trending upwards as environmental regulations become stricter; packaging and transportation (acid-resistant plastic drums, corrosion protection measures) account for approximately 5-8%. Industrial-grade products, due to their simple processes and low purity requirements, have a gross profit margin of approximately 30-35%, while electronic-grade products, due to their complex purification processes and strict quality control, can achieve a gross profit margin of 45-50%.

This report studies the global Ferric Chloride as Etchant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ferric Chloride as Etchant and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ferric Chloride as Etchant that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Ferric Chloride as Etchant total production and demand, 2021-2032, (K MT)

Global Ferric Chloride as Etchant total production value, 2021-2032, (USD Million)

Global Ferric Chloride as Etchant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Ferric Chloride as Etchant consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Ferric Chloride as Etchant domestic production, consumption, key domestic manufacturers and share

Global Ferric Chloride as Etchant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Ferric Chloride as Etchant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Ferric Chloride as Etchant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Ferric Chloride as Etchant market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kemira, Tessenderlo Group, BASF, Feralco, SIDRA Wasserchemie, Basic Chemical Industries, Chemifloc, Saf Sulphur Company, AguaChem Ltd, Al-Kout, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ferric Chloride as Etchant market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ferric Chloride as Etchant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Ferric Chloride as Etchant Market, Segmentation by Type:

Liquid Ferric Chloride

Solid Ferric Chloride

### Global Ferric Chloride as Etchant Market, Segmentation by Process Methods:

Static Etching

Dynamic Spray Etching

### Global Ferric Chloride as Etchant Market, Segmentation by Concentration:

35% FeCl<sub>3</sub>

41-42% FeCl<sub>3</sub>

### Global Ferric Chloride as Etchant Market, Segmentation by Application:

Metal Surface Treatment Industry

PCB Industry

Others

### Companies Profiled:

Kemira

Tessenderlo Group

BASF

Feralco

SIDRA Wasserchemie

Basic Chemical Industries

Chemifloc

Saf Sulphur Company

AguaChem Ltd

Al-Kout

Swedish Jordanian Chemicals

Shandong Hongda

Changyi Daan Fine Chemical

Kunca

**Key Questions Answered:**

1. How big is the global Ferric Chloride as Etchant market?
2. What is the demand of the global Ferric Chloride as Etchant market?
3. What is the year over year growth of the global Ferric Chloride as Etchant market?
4. What is the production and production value of the global Ferric Chloride as Etchant market?
5. Who are the key producers in the global Ferric Chloride as Etchant market?
6. What are the growth factors driving the market demand?

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