

Global Ferric Chloride as Etchant Market Growth 2026-2032

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Abstracts

The global Ferric Chloride as Etchant market size is predicted to grow from US\$ 443 million in 2025 to US\$ 704 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 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 (Fe₂O₃), and magnetite (Fe₃O₄), which react with hydrochloric acid (Fe₂O₃ + 6HCl → 2FeCl₃ + 3H₂O) 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%.

LP Information, Inc. (LPI) ' newest research report, the "Ferric Chloride as Etchant Industry Forecast" looks at past sales and reviews total world Ferric Chloride as Etchant sales in 2025, providing a comprehensive analysis by region and market sector of projected Ferric Chloride as Etchant sales for 2026 through 2032. With Ferric Chloride as Etchant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ferric Chloride as Etchant industry.

This Insight Report provides a comprehensive analysis of the global Ferric Chloride as Etchant landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ferric Chloride as Etchant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ferric Chloride as Etchant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ferric Chloride as Etchant and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ferric Chloride as Etchant.

This report presents a comprehensive overview, market shares, and growth

opportunities of Ferric Chloride as Etchant market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Liquid Ferric Chloride

Solid Ferric Chloride

Segmentation by Process Methods:

Static Etching

Dynamic Spray Etching

Segmentation by Concentration:

35% FeCl₃

41-42% FeCl₃

Segmentation by Application:

Metal Surface Treatment Industry

PCB Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Ferric Chloride as Etchant market?

What factors are driving Ferric Chloride as Etchant market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ferric Chloride as Etchant market opportunities vary by end market size?

How does Ferric Chloride as Etchant break out by Type, by Application?

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