

# Global Iridium(III) Chloride Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Iridium(III) Chloride market size is expected to reach \$ 563 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Iridium(III) Chloride ( $\text{IrCl}_3$ ) is a platinum-group metal (PGM) halide compound typically supplied in anhydrous or hydrated form ( $\text{IrCl}_3 \cdot x\text{H}_2\text{O}$ ), widely used as a precursor for iridium catalysts, electrochemical coatings, OLED emitters, and advanced materials. It is produced by chlorination of refined iridium metal powder or sponge, which itself is recovered as a by-product from nickel, copper, or platinum mining operations (notably in South Africa and Russia), followed by dissolution and purification steps to achieve high-purity grades (99.9% for industrial use, 99.99% for electronics and research). Upstream supply includes PGM mining (e.g., Bushveld complex ores), matte refining, solvent extraction, and precious metal separation; midstream processing involves iridium sponge production, chlorination reactors, crystallization, drying, and packaging under controlled conditions; downstream applications include proton exchange membrane (PEM) electrolyzer anode catalysts ( $\text{IrO}_2$  derived from  $\text{IrCl}_3$ ), Cativa acetic acid carbonylation catalysts, specialty chemical synthesis, OLED phosphorescent dopants, and advanced coatings for corrosion-resistant electrodes. The supply chain is highly concentrated, capital-intensive, and sensitive to PGM price volatility, making Iridium(III) Chloride strategically important in hydrogen energy and high-performance electronics sectors. In 2025, global Iridium(III) Chloride production reached approximately 7.1 tons, backed by an estimated 10 tons per year of installed capacity. Prices ranged between USD 45,000 and 75,000 per kilogram, with average industry gross margins of around 32%.

This report studies the global Iridium(III) Chloride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Iridium(III) Chloride 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 Iridium(III) Chloride that contribute to its increasing demand across many markets.

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

Global Iridium(III) Chloride total production and demand, 2021-2032, (Tons)

Global Iridium(III) Chloride total production value, 2021-2032, (USD Million)

Global Iridium(III) Chloride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Iridium(III) Chloride consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Iridium(III) Chloride domestic production, consumption, key domestic manufacturers and share

Global Iridium(III) Chloride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Iridium(III) Chloride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Iridium(III) Chloride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Iridium(III) Chloride 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 Johnson Matthey (UK), Umicore (Belgium), abcr (Germany), Heraeus (Germany), Strem Chemicals (USA), American Elements (USA), Hongsheng Platinum (China), Sino-Platinum Metals (China), Shaoxin Catsyn (China), GRINM Advanced Materials (China), 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 Iridium(III) Chloride market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Iridium(III) Chloride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Iridium(III) Chloride Market, Segmentation by Type:

Anhydrous Iridium(III) Chloride

Hydrated Iridium(III) Chloride

#### Global Iridium(III) Chloride Market, Segmentation by Purity Grade:

Technical Grade (> 99%)

High-Purity Grade (> 99.9%)

## Global Iridium(III) Chloride Market, Segmentation by Application:

Optoelectronic

Petrochemical

Industrial Coating

Others

## Companies Profiled:

Johnson Matthey (UK)

Umicore (Belgium)

abcr (Germany)

Heraeus (Germany)

Strem Chemicals (USA)

American Elements (USA)

Hongsheng Platinum (China)

Sino-Platinum Metals (China)

Shaoxin Catsyn (China)

GRINM Advanced Materials (China)

## Key Questions Answered:

1. How big is the global Iridium(III) Chloride market?
2. What is the demand of the global Iridium(III) Chloride market?
3. What is the year over year growth of the global Iridium(III) Chloride market?
4. What is the production and production value of the global Iridium(III) Chloride

market?

5. Who are the key producers in the global Iridium(III) Chloride market?

6. What are the growth factors driving the market demand?

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