

# Global Iron Phosphide Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Iron Phosphide market size is expected to reach \$ 239 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Iron Phosphide refers to a class of inorganic compounds formed between iron and phosphorus (most commonly  $Fe_3P$  and  $FeP$ ), widely used as catalysts (especially for hydrogen evolution and hydrodesulfurization), battery materials, and metallurgical additives. Its supply chain begins upstream with raw materials such as iron sources (iron ore, scrap steel, or iron powder) and phosphorus derivatives (elemental phosphorus, phosphine gas, or phosphates typically derived from phosphate rock). In the midstream, iron phosphide is produced through high-temperature solid-state reactions, gas-phase phosphidation (using phosphine), or wet-chemical synthesis depending on purity and application requirements, followed by grinding, classification, and sometimes surface modification. Downstream, the material is supplied to industries including energy (electrocatalysts for water splitting), electronics (semiconducting materials), metallurgy (alloying and deoxidizing agents), and chemicals (catalyst precursors), with distribution handled by specialty chemical suppliers or directly by manufacturers for industrial-scale applications. In 2025, global Iron Phosphide output was about 15,000 tons with 19,000 tons of capacity, average prices of USD 8,000–25,000 per ton, and gross margins around 31%.

This report studies the global Iron Phosphide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Iron Phosphide 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 Iron Phosphide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Iron Phosphide total production and demand, 2021-2032, (Tons)

Global Iron Phosphide total production value, 2021-2032, (USD Million)

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

Global Iron Phosphide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Iron Phosphide domestic production, consumption, key domestic manufacturers and share

Global Iron Phosphide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Iron Phosphide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Iron Phosphide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Iron Phosphide 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 American Elements (USA), Nanochemazone (Canada), Johnson Matthey (UK), Umicore (Belgium), Sinopec Catalyst (China), CNPC Catalyst (China), HBIS Group (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 Iron Phosphide 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 Iron Phosphide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Iron Phosphide Market, Segmentation by Type:

Hexagonal Iron Phosphide

Orthorhombic Iron Phosphide

Amorphous Iron Phosphide

### Global Iron Phosphide Market, Segmentation by Purity Level:

90–98%

98–99.9%

>99.9%

### Global Iron Phosphide Market, Segmentation by Application:

Chemical Catalyst

Battery Material

Metallurgical Additive

#### Companies Profiled:

American Elements (USA)

Nanochemazone (Canada)

Johnson Matthey (UK)

Umicore (Belgium)

Sinopec Catalyst (China)

CNPC Catalyst (China)

HBIS Group (China)

#### Key Questions Answered:

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

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Figure 45. 98–99.9%

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