

# Global Iron Phosphide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G277F4B2137AEN.html>

Date: June 2026

Pages: 105

Price: US\$ 3,480.00 (Single User License)

ID: G277F4B2137AEN

## Abstracts

According to our (Global Info Research) latest study, the global Iron Phosphide market size was valued at US\$ 151 million in 2025 and is forecast to a readjusted size of US\$ 239 million by 2032 with a CAGR of 6.7% during review period.

Iron Phosphide refers to a class of inorganic compounds formed between iron and phosphorus (most commonly  $\text{Fe}_2\text{P}$  and  $\text{FeP}$ ), 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 is a detailed and comprehensive analysis for global Iron Phosphide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and

product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Iron Phosphide market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Iron Phosphide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Iron Phosphide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Iron Phosphide market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Iron Phosphide

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Iron Phosphide market based on the following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Iron Phosphide market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Hexagonal Iron Phosphide

Orthorhombic Iron Phosphide

Amorphous Iron Phosphide

### Market segment by Purity Level

90–98%

98–99.9%

>99.9%

### Market segment by Application

Chemical Catalyst

Battery Material

Metallurgical Additive

### Major players covered

American Elements (USA)

Nanochemazone (Canada)

Johnson Matthey (UK)

Umicore (Belgium)

Sinopec Catalyst (China)

CNPC Catalyst (China)

HBIS Group (China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Iron Phosphide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Iron Phosphide, with price, sales quantity, revenue, and global market share of Iron Phosphide from 2021 to 2026.

Chapter 3, the Iron Phosphide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Iron Phosphide breakdown data are shown at the regional level, to show

the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Iron Phosphide market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Iron Phosphide.

Chapter 14 and 15, to describe Iron Phosphide sales channel, distributors, customers, research findings and conclusion.

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