

Global Carbonyl Iron Powder and Ultra Fine Iron Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbonyl Iron Powder and Ultra Fine Iron Powder market size is expected to reach \$ 199 million by 2032, rising at a market growth of 0.4% CAGR during the forecast period (2026-2032).

Iron powder is formed as a whole from several other iron particles. The particle sizes vary anywhere from 20-200 μ m. The iron properties differ depending on the production method and history of a specific iron powder. There are three types of iron powder classifications: reduced iron powder, atomized powder, and electrolyte iron powder. Each type is used in various applications depending on their properties. There is very little difference in the visual appearances of reduced iron powder and atomized iron powder. Carbonyl iron is a highly pure (97.5% for grade S, 99.5+% for grade R) iron, prepared by chemical decomposition of purified iron pentacarbonyl. It usually has the appearance of grey powder, composed of spherical microparticles. Most of the impurities are carbon, oxygen, and nitrogen. Ultra Fine Iron Powder, in our report, refers to iron powder's particle size is smaller than 10 μ m. Ultrafine iron powder has smaller particles, which has a very good electrical magnetic optical effect. This not only affects the sintering properties of the material, but also the final physical properties of the material. Ultrafine iron powder is widely used in the field of electromagnetic shielding & powder metallurgy.

Global Carbonyl Iron Powder and Ultra Fine Iron Powder key players include BASF, JFE, Gripm, Jiangxi Yuean, Jilin Jien, etc. Global top five manufacturers hold a share about 70%. Europe and China is the largest market, both with a share about 40%, followed by Japan, with a share about 15 percent. In terms of product, Carbonyl Iron Powder is the largest segment, with a share about 80%. And in terms of application, the

largest application is Powder Metallurgy, followed by Electronics Industry, Food and Drug Industry, Diamond Tools, Military Industry, etc.

This report studies the global Carbonyl Iron Powder and Ultra Fine Iron Powder production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Carbonyl Iron Powder and Ultra Fine Iron Powder total production and demand, 2021-2032, (K MT)

Global Carbonyl Iron Powder and Ultra Fine Iron Powder total production value, 2021-2032, (USD Million)

Global Carbonyl Iron Powder and Ultra Fine Iron Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Carbonyl Iron Powder and Ultra Fine Iron Powder consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Carbonyl Iron Powder and Ultra Fine Iron Powder domestic production, consumption, key domestic manufacturers and share

Global Carbonyl Iron Powder and Ultra Fine Iron Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Carbonyl Iron Powder and Ultra Fine Iron Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Carbonyl Iron Powder and Ultra Fine Iron Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Carbonyl Iron Powder and Ultra Fine Iron Powder 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 BASF, Sintez-CIP, JFE, Jiangsu Tianyi, Jilin Jien, Jiangxi Yuean, Shanxi Xinghua, Jiangyou Hebao, Jinchuan Group, Gripm, 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 Carbonyl Iron Powder and Ultra Fine Iron Powder 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 Carbonyl Iron Powder and Ultra Fine Iron Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbonyl Iron Powder and Ultra Fine Iron Powder Market, Segmentation by Type:

Carbonyl Iron Powder

Atomized Ultra Fine Iron Powder

Others

Global Carbonyl Iron Powder and Ultra Fine Iron Powder Market, Segmentation by Application:

Powder Metallurgy

Electronics Industry

Diamond Tools

Military Industry

Food and Drug Industry

Others

Companies Profiled:

BASF

Sintez-CIP

JFE

Jiangsu Tianyi

Jilin Jien

Jiangxi Yuean

Shanxi Xinghua

Jiangyou Hebao

Jinchuan Group

Gripm

CNPC Powder

Key Questions Answered:

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

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