

Global Carbonyl Iron Powder Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Carbonyl Iron Powder market size will reach 253.03 Million USD in 2025 and is projected to reach 403.66 Million USD by 2032, with a CAGR of 6.90% (2025-2032). Notably, the China Carbonyl Iron Powder market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Carbonyl iron powder refers to a finely divided form of iron produced through the process of carbonylation. It is characterized by its high purity, fine particle size, and unique properties. Carbonyl iron powder is manufactured by reacting iron pentacarbonyl, a volatile liquid compound, with high-temperature carbon monoxide gas. The resulting powder consists of pure iron particles with a controlled size and spherical shape. Carbonyl iron powder exhibits excellent magnetic properties, such as high saturation magnetization and low coercivity, making it suitable for various applications in industries like electronics, magnetic recording media, and electromagnetic shielding. It is also used in the production of magnetic inks, toners, and as a component in metal injection molding (MIM) processes. The fine particle size of carbonyl iron powder enables its effective dispersion and uniformity in different matrices. Furthermore, the high purity of carbonyl iron powder ensures minimal impurities, enhancing its reliability and performance in applications requiring precise magnetic properties.

The major global manufacturers of Carbonyl Iron Powder include BASF, Sintez-CIP,

JFE, Jiangsu Tianyi Ultra-fine Metal Power, Jilin Jien, Jiangxi Yuean, Shanxi Xinghua, Jiangyou Hebao Nanomaterial, Jinchuan Group, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Carbonyl Iron Powder. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Carbonyl Iron Powder market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Carbonyl Iron Powder market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Carbonyl Iron Powder industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Carbonyl Iron Powder Include:

BASF

Sintez-CIP

JFE

Jiangsu Tianyi Ultra-fine Metal Power

Jilin Jien

Jiangxi Yuean

Shanxi Xinghua

Jiangyou Hebao Nanomaterial

Jinchuan Group

Carbonyl Iron Powder Product Segment Include:

Fe?98%

Fe: 98-99%

Fe?99%

Carbonyl Iron Powder Product Application Include:

Powder Metallurgy

Electronics Industry

Diamond Tools

Military Industry

Food and Drug Industry

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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