

# Global Nano Iron(III) Oxide Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Nano Iron(III) Oxide market size is expected to reach \$ 971 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

Nano iron(III) oxide is a reddish-brown/red highly active nanoparticle. Due to its small size effect, it possesses excellent properties such as strong ultraviolet absorption, high chroma, high tinting strength, high transparency, and resistance to temperature, acids, and alkalis. It is widely used in coatings, plastics, inks, magnetic materials, and biomedicine. It has extremely strong ultraviolet shielding capabilities and high transparency. It exists in a stable oxide form, typically hematite ( $\text{Fe}_2\text{O}_3$ ) or magnetite ( $\text{Fe}_3\text{O}_4$ ).

The upstream sector primarily involves the supply of high-purity iron sources (such as ferric sulfate and ferric chloride), chemical reagents (ammonia, reducing agents, and surfactants), and auxiliary materials for water treatment and nanoparticle preparation. These raw materials determine the purity and performance of the nanoparticles. The midstream sector comprises the preparation and functionalization of nano-ferric oxide, encompassing preparation processes such as co-precipitation, sol-gel, and hydrothermal methods, as well as surface modification, particle size control, and dispersion treatment to endow them with magnetic, catalytic, or adsorption functions. Downstream applications are wide-ranging, including magnetic materials (magnetic separation, magnetic recording), biomedicine (targeted drug delivery, MRI contrast agents), catalysts, environmental remediation (wastewater treatment, heavy metal adsorption), and pigments.

In 2025, global sales of nano iron(III) oxide reached 165,000 tons, with a production capacity of approximately 240,000 tons, an average selling price of US\$4,250 per ton,

and an average gross profit margin of 28%-35%.

The demand structure for nano-ferric oxide is showing a diversified trend. Traditional demand comes from pigments, magnetic materials, and other fields; the fastest-growing downstream sectors are advanced functional materials and biomedical applications. Pharmaceutical applications such as magnetic separation, magnetic resonance imaging (MRI), and targeted drug delivery systems place stringent requirements on the biocompatibility and particle size control of  $\gamma\text{-Fe}_2\text{O}_3$ , making them high-value-added growth points. Environmental remediation (heavy metal ion adsorption, wastewater treatment) and catalytic applications have also been sources of growth in recent years. Furthermore, driven by the electronics and new energy industries' push for high-performance nanomaterials, the demand for nano- $\text{Fe}_2\text{O}_3$  in emerging fields such as sensors, lithium battery additives, and supercapacitors is also rapidly increasing, driving overall market structure optimization and upgrading.

The technical routes for nano-ferric oxide mainly cover traditional processes such as co-precipitation, sol-gel, hydrothermal/solvothermal, and thermal decomposition/spray pyrolysis. In recent years, technological advancements in the industry have been reflected in more refined particle size control, morphology regulation, surface functionalization, and composite material development. Traditional processes are suitable for large-scale production of routine products. However, to meet the needs of high-end applications (such as MRI imaging, targeted therapy, and catalytic selectivity), research and industry are gradually adopting routes such as microemulsion, controlled hydrothermal synthesis, template methods, and surface ligand design to improve performance indicators such as dispersibility, biocompatibility, and magnetic properties. Meanwhile, processes used in industrial production are also developing towards lower energy consumption, sustainability, and greener practices, such as reducing the use of organic solvents and optimizing reactor modular production.

This report studies the global Nano Iron(III) Oxide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nano Iron(III) Oxide total production and demand, 2021-2032, (Kilotons)

Global Nano Iron(III) Oxide total production value, 2021-2032, (USD Million)

Global Nano Iron(III) Oxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Nano Iron(III) Oxide consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Nano Iron(III) Oxide domestic production, consumption, key domestic manufacturers and share

Global Nano Iron(III) Oxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Nano Iron(III) Oxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Nano Iron(III) Oxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Nano Iron(III) Oxide 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 US Research Nanomaterials, SkySpring Nanomaterials, Alfa Chemistry, Sigma-Aldrich, Platonic Nanotech, Techinstro, Adnano Technologies Pvt Ltd, Reinste Nano Ventures, American Elements, Strem Chemicals, 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 Nano Iron(III) Oxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Nano Iron(III) Oxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nano Iron(III) Oxide Market, Segmentation by Type:

?-Fe?O?

?-Fe?O?

Global Nano Iron(III) Oxide Market, Segmentation by Shape:

Spherical

Needle-Like

Global Nano Iron(III) Oxide Market, Segmentation by Particle Size:

10-20nm

20-30nm

Global Nano Iron(III) Oxide Market, Segmentation by Application:

Rust-Proof Materials

Magnetic Materials

Chemical Materials

Others

Companies Profiled:

US Research Nanomaterials

SkySpring Nanomaterials

Alfa Chemistry

Sigma-Aldrich

Platonic Nanotech

Techinstro

Adnano Technologies Pvt Ltd

Reinste Nano Ventures

American Elements

Strem Chemicals

PlasmaChem GmbH

Toda Kogyo

Hefei Zhonghang Nanomaterials

Shanghai Pantian Powder

Zhejiang Yamei Nanomaterials

Jiupeng New Materials

Hangzhou Hengna New Materials

Suzhou Youzirconium Nanomaterials

Wuhu Xinda New Materials

Zhejiang Zhitai Nano-Micro

Hongwu Materials

Key Questions Answered:

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

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