

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

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## Abstracts

The global Nano Iron(III) Oxide Dispersion market size is expected to reach \$ 3943 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

Nano iron(III) oxide dispersion is a highly active liquid material in which nano-sized (typically 20-30 nm or smaller) iron oxide particles are uniformly and stably suspended in water or organic solvents (such as ethanol, propylene glycol, etc.). It possesses extremely high activity, high specific surface area, and strong adhesion, and is widely used in coatings, magnetic fluids, rubber, and fine chemicals. It imparts enhanced antioxidant, magnetic, UV absorption, or corrosion-resistant properties to materials.

The upstream sector primarily includes suppliers of basic chemical raw materials such as high-purity iron sources (e.g., ferric sulfate, ferric chloride), chemical reagents (ammonia, reducing agents), dispersants, and solvents. These raw materials determine the purity, stability, and dispersion performance of the dispersion particles. The midstream sector comprises the preparation and functionalization stages of nano-ferric oxide dispersions, including processes such as the preparation of nano-Fe<sub>2</sub>O<sub>3</sub> powder, particle size control, surface modification, dispersion stability optimization, and concentration adjustment, enabling products to meet diverse application requirements. The downstream sector covers a wide range of application markets, such as magnetic fluids, magnetic pigments, electrophoretic coatings, catalysts, biomedical magnetic carriers, and environmental remediation materials. Biomedical and high-performance industrial applications are among the fastest-growing sectors in recent years, placing higher demands on the stability, particle size uniformity, and surface functionalization of dispersions.

In 2025, global sales of nano iron(III) oxide dispersions reached 62,500 tons, with a production capacity of approximately 90,000 tons, an average selling price of US\$45.8/kg, and an average gross profit margin of 30%-40%.

The demand for nano-ferric oxide dispersions primarily stems from functional coatings, magnetic materials, electronic materials, environmental remediation, and biomedicine. Magnetic fluids, conductive coatings, and high-performance catalysts are traditional sources of demand, while new energy, battery materials, and biomedical materials have become the most significant growth drivers in recent years. With the development of lithium-ion batteries, sodium-ion batteries, and energy storage materials industries, the application of nano-Fe<sub>2</sub>O<sub>3</sub> dispersions in electrode slurries, conductive additives, and electrochemical catalysis is rapidly increasing. Simultaneously, the growing demand in the environmental protection sector for wastewater treatment and heavy metal adsorption materials is also driving market expansion for related products. High-value-added applications such as medical magnetic nanoparticles, bioseparation, and magnetic resonance imaging (MRI) further enhance the overall profitability of the industry.

The technological route for nano-ferric oxide dispersions is evolving from traditional powder dispersion to 'in-situ liquid-phase synthesis + surface functionalization.' Traditional processes mainly employ co-precipitation, hydrothermal, and sol-gel methods to prepare nano-Fe<sub>2</sub>O<sub>3</sub> powders followed by mechanical dispersion. High-end products increasingly utilize in-situ dispersion synthesis technology to reduce agglomeration and improve long-term stability. Current technological advancements focus on particle size uniformity, narrow particle size distribution control, high-concentration stable dispersion, surface coating, and composite design. Some companies are beginning to develop composite dispersions with magnetic response, conductivity, catalysis, and biocompatibility to meet the needs of new energy, biomedicine, and precision electronics fields. Meanwhile, green, low-energy preparation routes and continuous production processes are gradually becoming the industry's development direction.

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

This report is a detailed and comprehensive analysis of the world market for Nano Iron(III) Oxide Dispersion 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 Dispersion

that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Nano Iron(III) Oxide Dispersion 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, American Elements, Sigma-Aldrich, Nanoshel, Nanografi Nano Technology, Toda Kogyo, Hangzhou Hengna New Materials, Zhejiang Zhitai Nano-Micro, Hangzhou Jikang New Materials, Suzhou Youzirconium Nanomaterials, 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 Dispersion market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) 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 Dispersion Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Red

Brown

#### Global Nano Iron(III) Oxide Dispersion Market, Segmentation by Solvents:

Water

Alcohols

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

10-20nm

20-30nm

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

Rust-Proof Materials

Magnetic Materials

Industrial Catalysts

Others

Companies Profiled:

US Research Nanomaterials

American Elements

Sigma-Aldrich

Nanoshel

Nanografi Nano Technology

Toda Kogyo

Hangzhou Hengna New Materials

Zhejiang Zhitai Nano-Micro

Hangzhou Jikang New Materials

Suzhou Youzirconium Nanomaterials

Key Questions Answered:

1. How big is the global Nano Iron(III) Oxide Dispersion market?

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

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