

Global Magnetite Nano Particle Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetite Nano Particle market size is expected to reach \$ 484 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global magnetite nano particle production reached approximately 67 tons, the average price is 4000 usd/kg. Magnetite nano particles are magnetic materials whose main component is iron(III) oxide (Fe_3O_4), and whose particle size typically ranges from 1 to 100 nanometers. They possess a well-defined crystal structure and exhibit unique physicochemical properties such as superparamagnetism due to their nanoscale size. They respond rapidly to external magnetic fields, and their magnetism essentially disappears after the magnetic field is removed. This material also exhibits good biocompatibility and surface modifiability.

Market Concentration and Major Players:

Internationally, the magnetite nanoparticle market is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include Nanocomposix and Techinstro. Domestically, however, there is still significant room for growth in the magnetite nanoparticle market.

Manufacturing Processes and Market Trends:

The core of magnetite nanoparticle manufacturing lies in the precise control of its size, morphology, and surface properties. Chemical coprecipitation is the most classic and widely used method, directly generating nanoparticles by mixing and precipitating ferrous and ferric salt solutions in an alkaline environment under controlled conditions. Thermal decomposition utilizes the pyrolysis reaction of precursors in high-boiling-point

organic solvents, enabling the preparation of particles with better monodispersity. Hydrothermal and solvothermal methods, conducted in a high-temperature, high-pressure closed environment, are beneficial for obtaining products with good crystallinity. Furthermore, biosynthesis utilizes microorganisms or plant extracts as reducing agents and stabilizers, representing an environmentally friendly green synthetic route. Regardless of the method used, subsequent surface modification and functionalization steps are crucial, imbuing the nanoparticles with biocompatibility and specific functions by encapsulating silica, polymers, or grafting specific target molecules.

Current market trends are strongly driven by nanomedicine and green technology. In the biomedical field, its role as a multifunctional diagnostic and therapeutic platform is increasingly prominent, for example, integrating magnetic resonance imaging, targeted drug delivery, and magnetothermal therapy. In environmental remediation, functionalized magnetite nanoparticles are widely studied for their efficient adsorption and catalytic degradation of water pollutants. The industrial sector is also continuously exploring their applications in high-end magnetic liquids, catalysis, and energy storage materials. Technological development focuses on improving particle stability, biosafety, and intelligent response performance in complex environments, while green and low-cost synthesis processes are key to large-scale applications. The overall market is developing towards more refined functions, diversified applications, and sustainable preparation.

This report studies the global Magnetite Nano Particle production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnetite Nano Particle 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 Magnetite Nano Particle that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnetite Nano Particle total production and demand, 2021-2032, (K MT)

Global Magnetite Nano Particle total production value, 2021-2032, (USD Million)

Global Magnetite Nano Particle production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Magnetite Nano Particle consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Magnetite Nano Particle domestic production, consumption, key domestic manufacturers and share

Global Magnetite Nano Particle production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Magnetite Nano Particle production by Materials, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Magnetite Nano Particle production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Magnetite Nano Particle 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 American Elements (USA), US Research Nanomaterials (USA), Techinstro (India), Nanocomposix (USA), Cytodiagnosics (Canada), Nanografi Nanotechnology (Turkey), US Research Nanomaterials (USA), Nanografi (Turkey), Xi'an Qiyue Biotechnology(China), Xi'an Ruixi Biotechnology(China), 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 Magnetite Nano Particle market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (US\$/kg) by manufacturer, by Materials, 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 Magnetite Nano Particle Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetite Nano Particle Market, Segmentation by Materials:

Iron Oxide Nanoparticles

Metallic Nanoparticles

Other

Global Magnetite Nano Particle Market, Segmentation by Particle:

Below 5 nm

5?10 nm

10?20 nm

20?50 nm

50?100 nm

Above 100 nm

Global Magnetite Nano Particle Market, Segmentation by Shape:

Sphere

Cube

Octahedron

Rod-shaped

Sheet-shaped

Global Magnetite Nano Particle Market, Segmentation by Application:

Medical Diagnostics And Treatments

Magnetic Immunoassay

Waste Water Treatment

Others

Companies Profiled:

American Elements (USA)

US Research Nanomaterials (USA)

Techinstro (India)

Nanocomposix (USA)

Cytodiagnostics (Canada)

Nanografi Nanotechnology (Turkey)

US Research Nanomaterials (USA)

Nanografi (Turkey)

Xi'an Qiyue Biotechnology(China)

Xi'an Ruixi Biotechnology(China)

Nanjing Dongna Biotechnology(China)

Key Questions Answered:

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

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