

Global Magnetic Iron Oxide Nanoparticles Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Magnetic Iron Oxide Nanoparticles market size was valued at US\$ 60.7 million in 2024 and is forecast to a readjusted size of USD 97 million by 2031 with a CAGR of 6.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Magnetic iron oxide nanoparticles are ultrafine particles—typically ranging from 1 to 100 nanometers in size—composed mainly of iron oxides such as magnetite (Fe_3O_4) or maghemite ($\gamma\text{-Fe}_2\text{O}_3$). These nanoparticles exhibit superparamagnetic properties, meaning they can be magnetized in the presence of an external magnetic field but lose magnetization when the field is removed. Due to their small size and high surface area, they demonstrate unique magnetic, chemical, and biological properties. Magnetic iron oxide nanoparticles are widely used in biomedical applications (such as magnetic resonance imaging (MRI) contrast agents, targeted drug delivery, and hyperthermia treatment), environmental remediation, magnetic data storage, and catalysis. Their surface can be functionalized with various coatings or ligands to enhance stability, biocompatibility, and specificity for different applications.

The market for magnetic iron oxide nanoparticles is experiencing robust growth driven by expanding applications in biomedical fields such as MRI contrast agents, targeted drug delivery, and hyperthermia therapy, alongside rising demand for environmental remediation solutions like water treatment and pollutant removal. There is a clear shift toward surface-functionalized nanoparticles to improve biocompatibility, stability, and

targeting efficiency, especially in medical and industrial uses. Asia-Pacific leads in production and consumption, fueled by strong manufacturing capacity and increasing healthcare investments. Additionally, trends toward green synthesis methods, scalable production, and enhanced regulatory compliance are shaping the competitive landscape, with growing interest in new applications across electronics, catalysis, and smart materials sectors.

This report is a detailed and comprehensive analysis for global Magnetic Iron Oxide Nanoparticles market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Magnetic Iron Oxide Nanoparticles market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Magnetic Iron Oxide Nanoparticles market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Magnetic Iron Oxide Nanoparticles market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Magnetic Iron Oxide Nanoparticles market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Magnetic Iron Oxide Nanoparticles

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Magnetic Iron Oxide Nanoparticles market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include US Research Nanomaterials, Nanografi Nano Technology, Strem Chemicals, Fortis Life Sciences, American Elements, NanoAmor, PlasmaChem, Meliorum Technologies, Hongwu International, Shanghai Richem, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Magnetic Iron Oxide Nanoparticles market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Magnetite Nanoparticles

Maghemite Nanoparticles

Market segment by Application

Medical

Industrial

Environmental

Others

Major players covered

US Research Nanomaterials

Nanografi Nano Technology

Strem Chemicals

Fortis Life Sciences

American Elements

NanoAmor

PlasmaChem

Meliorum Technologies

Hongwu International

Shanghai Richem

Spang & Company

Ocean NanoTech

Nanografi

Nantero

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnetic Iron Oxide Nanoparticles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Iron Oxide Nanoparticles, with price, sales quantity, revenue, and global market share of Magnetic Iron Oxide Nanoparticles from 2020 to 2025.

Chapter 3, the Magnetic Iron Oxide Nanoparticles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetic Iron Oxide Nanoparticles breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Magnetic Iron Oxide Nanoparticles market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnetic Iron Oxide Nanoparticles.

Chapter 14 and 15, to describe Magnetic Iron Oxide Nanoparticles sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Magnetic Iron Oxide Nanoparticles Consumption Value by Type: 2020 Versus 2024 Versus 2031
 - 1.3.2 Magnetite Nanoparticles
 - 1.3.3 Maghemite Nanoparticles
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Magnetic Iron Oxide Nanoparticles Consumption Value by Application: 2020 Versus 2024 Versus 2031
 - 1.4.2 Medical
 - 1.4.3 Industrial
 - 1.4.4 Environmental
 - 1.4.5 Others
- 1.5 Global Magnetic Iron Oxide Nanoparticles Market Size & Forecast
 - 1.5.1 Global Magnetic Iron Oxide Nanoparticles Consumption Value (2020 & 2024 & 2031)
 - 1.5.2 Global Magnetic Iron Oxide Nanoparticles Sales Quantity (2020-2031)
 - 1.5.3 Global Magnetic Iron Oxide Nanoparticles Average Price (2020-2031)

2 MANUFACTURERS PROFILES

- 2.1 US Research Nanomaterials
 - 2.1.1 US Research Nanomaterials Details
 - 2.1.2 US Research Nanomaterials Major Business
 - 2.1.3 US Research Nanomaterials Magnetic Iron Oxide Nanoparticles Product and Services
 - 2.1.4 US Research Nanomaterials Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.1.5 US Research Nanomaterials Recent Developments/Updates
- 2.2 Nanografi Nano Technology
 - 2.2.1 Nanografi Nano Technology Details
 - 2.2.2 Nanografi Nano Technology Major Business
 - 2.2.3 Nanografi Nano Technology Magnetic Iron Oxide Nanoparticles Product and Services

2.2.4 Nanografi Nano Technology Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Nanografi Nano Technology Recent Developments/Updates

2.3 Strem Chemicals

2.3.1 Strem Chemicals Details

2.3.2 Strem Chemicals Major Business

2.3.3 Strem Chemicals Magnetic Iron Oxide Nanoparticles Product and Services

2.3.4 Strem Chemicals Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Strem Chemicals Recent Developments/Updates

2.4 Fortis Life Sciences

2.4.1 Fortis Life Sciences Details

2.4.2 Fortis Life Sciences Major Business

2.4.3 Fortis Life Sciences Magnetic Iron Oxide Nanoparticles Product and Services

2.4.4 Fortis Life Sciences Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Fortis Life Sciences Recent Developments/Updates

2.5 American Elements

2.5.1 American Elements Details

2.5.2 American Elements Major Business

2.5.3 American Elements Magnetic Iron Oxide Nanoparticles Product and Services

2.5.4 American Elements Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 American Elements Recent Developments/Updates

2.6 NanoAmor

2.6.1 NanoAmor Details

2.6.2 NanoAmor Major Business

2.6.3 NanoAmor Magnetic Iron Oxide Nanoparticles Product and Services

2.6.4 NanoAmor Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 NanoAmor Recent Developments/Updates

2.7 PlasmaChem

2.7.1 PlasmaChem Details

2.7.2 PlasmaChem Major Business

2.7.3 PlasmaChem Magnetic Iron Oxide Nanoparticles Product and Services

2.7.4 PlasmaChem Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 PlasmaChem Recent Developments/Updates

2.8 Meliorum Technologies

- 2.8.1 Meliorum Technologies Details
- 2.8.2 Meliorum Technologies Major Business
- 2.8.3 Meliorum Technologies Magnetic Iron Oxide Nanoparticles Product and Services
- 2.8.4 Meliorum Technologies Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Meliorum Technologies Recent Developments/Updates
- 2.9 Hongwu International
 - 2.9.1 Hongwu International Details
 - 2.9.2 Hongwu International Major Business
 - 2.9.3 Hongwu International Magnetic Iron Oxide Nanoparticles Product and Services
 - 2.9.4 Hongwu International Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Hongwu International Recent Developments/Updates
- 2.10 Shanghai Richem
 - 2.10.1 Shanghai Richem Details
 - 2.10.2 Shanghai Richem Major Business
 - 2.10.3 Shanghai Richem Magnetic Iron Oxide Nanoparticles Product and Services
 - 2.10.4 Shanghai Richem Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Shanghai Richem Recent Developments/Updates
- 2.11 Spang & Company
 - 2.11.1 Spang & Company Details
 - 2.11.2 Spang & Company Major Business
 - 2.11.3 Spang & Company Magnetic Iron Oxide Nanoparticles Product and Services
 - 2.11.4 Spang & Company Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Spang & Company Recent Developments/Updates
- 2.12 Ocean NanoTech
 - 2.12.1 Ocean NanoTech Details
 - 2.12.2 Ocean NanoTech Major Business
 - 2.12.3 Ocean NanoTech Magnetic Iron Oxide Nanoparticles Product and Services
 - 2.12.4 Ocean NanoTech Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Ocean NanoTech Recent Developments/Updates
- 2.13 Nanografi
 - 2.13.1 Nanografi Details
 - 2.13.2 Nanografi Major Business
 - 2.13.3 Nanografi Magnetic Iron Oxide Nanoparticles Product and Services
 - 2.13.4 Nanografi Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Nanografi Recent Developments/Updates

2.14 Nantero

2.14.1 Nantero Details

2.14.2 Nantero Major Business

2.14.3 Nantero Magnetic Iron Oxide Nanoparticles Product and Services

2.14.4 Nantero Magnetic Iron Oxide Nanoparticles Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Nantero Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MAGNETIC IRON OXIDE NANOPARTICLES BY MANUFACTURER

3.1 Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Manufacturer (2020-2025)

3.2 Global Magnetic Iron Oxide Nanoparticles Revenue by Manufacturer (2020-2025)

3.3 Global Magnetic Iron Oxide Nanoparticles Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Magnetic Iron Oxide Nanoparticles by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Magnetic Iron Oxide Nanoparticles Manufacturer Market Share in 2024

3.4.3 Top 6 Magnetic Iron Oxide Nanoparticles Manufacturer Market Share in 2024

3.5 Magnetic Iron Oxide Nanoparticles Market: Overall Company Footprint Analysis

3.5.1 Magnetic Iron Oxide Nanoparticles Market: Region Footprint

3.5.2 Magnetic Iron Oxide Nanoparticles Market: Company Product Type Footprint

3.5.3 Magnetic Iron Oxide Nanoparticles Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Magnetic Iron Oxide Nanoparticles Market Size by Region

4.1.1 Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Region (2020-2031)

4.1.2 Global Magnetic Iron Oxide Nanoparticles Consumption Value by Region (2020-2031)

4.1.3 Global Magnetic Iron Oxide Nanoparticles Average Price by Region (2020-2031)

4.2 North America Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031)

- 4.3 Europe Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031)
- 4.4 Asia-Pacific Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031)
- 4.5 South America Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031)
- 4.6 Middle East & Africa Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2031)
- 5.2 Global Magnetic Iron Oxide Nanoparticles Consumption Value by Type (2020-2031)
- 5.3 Global Magnetic Iron Oxide Nanoparticles Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2031)
- 6.2 Global Magnetic Iron Oxide Nanoparticles Consumption Value by Application (2020-2031)
- 6.3 Global Magnetic Iron Oxide Nanoparticles Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2031)
- 7.2 North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2031)
- 7.3 North America Magnetic Iron Oxide Nanoparticles Market Size by Country
 - 7.3.1 North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2020-2031)
 - 7.3.2 North America Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2031)
- 8.2 Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Application

(2020-2031)

8.3 Europe Magnetic Iron Oxide Nanoparticles Market Size by Country

8.3.1 Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Country

(2020-2031)

8.3.2 Europe Magnetic Iron Oxide Nanoparticles Consumption Value by Country

(2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Application
(2020-2031)

9.3 Asia-Pacific Magnetic Iron Oxide Nanoparticles Market Size by Region

9.3.1 Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Region
(2020-2031)

9.3.2 Asia-Pacific Magnetic Iron Oxide Nanoparticles Consumption Value by Region
(2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Type
(2020-2031)

10.2 South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Application
(2020-2031)

10.3 South America Magnetic Iron Oxide Nanoparticles Market Size by Country

10.3.1 South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Country
(2020-2031)

10.3.2 South America Magnetic Iron Oxide Nanoparticles Consumption Value by

Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Magnetic Iron Oxide Nanoparticles Market Size by Country

11.3.1 Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Magnetic Iron Oxide Nanoparticles Market Drivers

12.2 Magnetic Iron Oxide Nanoparticles Market Restraints

12.3 Magnetic Iron Oxide Nanoparticles Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Magnetic Iron Oxide Nanoparticles and Key Manufacturers

13.2 Manufacturing Costs Percentage of Magnetic Iron Oxide Nanoparticles

13.3 Magnetic Iron Oxide Nanoparticles Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Magnetic Iron Oxide Nanoparticles Typical Distributors

14.3 Magnetic Iron Oxide Nanoparticles Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. US Research Nanomaterials Basic Information, Manufacturing Base and Competitors

Table 4. US Research Nanomaterials Major Business

Table 5. US Research Nanomaterials Magnetic Iron Oxide Nanoparticles Product and Services

Table 6. US Research Nanomaterials Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. US Research Nanomaterials Recent Developments/Updates

Table 8. Nanografi Nano Technology Basic Information, Manufacturing Base and Competitors

Table 9. Nanografi Nano Technology Major Business

Table 10. Nanografi Nano Technology Magnetic Iron Oxide Nanoparticles Product and Services

Table 11. Nanografi Nano Technology Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Nanografi Nano Technology Recent Developments/Updates

Table 13. Strem Chemicals Basic Information, Manufacturing Base and Competitors

Table 14. Strem Chemicals Major Business

Table 15. Strem Chemicals Magnetic Iron Oxide Nanoparticles Product and Services

Table 16. Strem Chemicals Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Strem Chemicals Recent Developments/Updates

Table 18. Fortis Life Sciences Basic Information, Manufacturing Base and Competitors

Table 19. Fortis Life Sciences Major Business

Table 20. Fortis Life Sciences Magnetic Iron Oxide Nanoparticles Product and Services

Table 21. Fortis Life Sciences Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Fortis Life Sciences Recent Developments/Updates

Table 23. American Elements Basic Information, Manufacturing Base and Competitors

Table 24. American Elements Major Business

Table 25. American Elements Magnetic Iron Oxide Nanoparticles Product and Services

Table 26. American Elements Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. American Elements Recent Developments/Updates

Table 28. NanoAmor Basic Information, Manufacturing Base and Competitors

Table 29. NanoAmor Major Business

Table 30. NanoAmor Magnetic Iron Oxide Nanoparticles Product and Services

Table 31. NanoAmor Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. NanoAmor Recent Developments/Updates

Table 33. PlasmaChem Basic Information, Manufacturing Base and Competitors

Table 34. PlasmaChem Major Business

Table 35. PlasmaChem Magnetic Iron Oxide Nanoparticles Product and Services

Table 36. PlasmaChem Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. PlasmaChem Recent Developments/Updates

Table 38. Meliorum Technologies Basic Information, Manufacturing Base and Competitors

Table 39. Meliorum Technologies Major Business

Table 40. Meliorum Technologies Magnetic Iron Oxide Nanoparticles Product and Services

Table 41. Meliorum Technologies Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Meliorum Technologies Recent Developments/Updates

Table 43. Hongwu International Basic Information, Manufacturing Base and Competitors

Table 44. Hongwu International Major Business

Table 45. Hongwu International Magnetic Iron Oxide Nanoparticles Product and Services

Table 46. Hongwu International Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Hongwu International Recent Developments/Updates

Table 48. Shanghai Richem Basic Information, Manufacturing Base and Competitors

Table 49. Shanghai Richem Major Business

Table 50. Shanghai Richem Magnetic Iron Oxide Nanoparticles Product and Services

Table 51. Shanghai Richem Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Shanghai Richem Recent Developments/Updates

Table 53. Spang & Company Basic Information, Manufacturing Base and Competitors

Table 54. Spang & Company Major Business

Table 55. Spang & Company Magnetic Iron Oxide Nanoparticles Product and Services

Table 56. Spang & Company Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Spang & Company Recent Developments/Updates

Table 58. Ocean NanoTech Basic Information, Manufacturing Base and Competitors

Table 59. Ocean NanoTech Major Business

Table 60. Ocean NanoTech Magnetic Iron Oxide Nanoparticles Product and Services

Table 61. Ocean NanoTech Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Ocean NanoTech Recent Developments/Updates

Table 63. Nanografi Basic Information, Manufacturing Base and Competitors

Table 64. Nanografi Major Business

Table 65. Nanografi Magnetic Iron Oxide Nanoparticles Product and Services

Table 66. Nanografi Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Nanografi Recent Developments/Updates

Table 68. Nantero Basic Information, Manufacturing Base and Competitors

Table 69. Nantero Major Business

Table 70. Nantero Magnetic Iron Oxide Nanoparticles Product and Services

Table 71. Nantero Magnetic Iron Oxide Nanoparticles Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Nantero Recent Developments/Updates

Table 73. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Manufacturer (2020-2025) & (Tons)

Table 74. Global Magnetic Iron Oxide Nanoparticles Revenue by Manufacturer (2020-2025) & (USD Million)

Table 75. Global Magnetic Iron Oxide Nanoparticles Average Price by Manufacturer (2020-2025) & (US\$/kg)

Table 76. Market Position of Manufacturers in Magnetic Iron Oxide Nanoparticles, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 77. Head Office and Magnetic Iron Oxide Nanoparticles Production Site of Key Manufacturer

Table 78. Magnetic Iron Oxide Nanoparticles Market: Company Product Type Footprint

Table 79. Magnetic Iron Oxide Nanoparticles Market: Company Product Application Footprint

Table 80. Magnetic Iron Oxide Nanoparticles New Market Entrants and Barriers to Market Entry

Table 81. Magnetic Iron Oxide Nanoparticles Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 83. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Region (2020-2025) & (Tons)

Table 84. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Region (2026-2031) & (Tons)

Table 85. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Region (2020-2025) & (USD Million)

Table 86. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Region (2026-2031) & (USD Million)

Table 87. Global Magnetic Iron Oxide Nanoparticles Average Price by Region (2020-2025) & (US\$/kg)

Table 88. Global Magnetic Iron Oxide Nanoparticles Average Price by Region (2026-2031) & (US\$/kg)

Table 89. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2025) & (Tons)

Table 90. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2026-2031) & (Tons)

Table 91. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Type (2020-2025) & (USD Million)

Table 92. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Type (2026-2031) & (USD Million)

Table 93. Global Magnetic Iron Oxide Nanoparticles Average Price by Type (2020-2025) & (US\$/kg)

Table 94. Global Magnetic Iron Oxide Nanoparticles Average Price by Type (2026-2031) & (US\$/kg)

Table 95. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2025) & (Tons)

Table 96. Global Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2026-2031) & (Tons)

Table 97. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Application (2020-2025) & (USD Million)

Table 98. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Application (2026-2031) & (USD Million)

Table 99. Global Magnetic Iron Oxide Nanoparticles Average Price by Application (2020-2025) & (US\$/kg)

Table 100. Global Magnetic Iron Oxide Nanoparticles Average Price by Application (2026-2031) & (US\$/kg)

Table 101. North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2025) & (Tons)

Table 102. North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2026-2031) & (Tons)

Table 103. North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2025) & (Tons)

Table 104. North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2026-2031) & (Tons)

Table 105. North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2020-2025) & (Tons)

Table 106. North America Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2026-2031) & (Tons)

Table 107. North America Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2020-2025) & (USD Million)

Table 108. North America Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2026-2031) & (USD Million)

Table 109. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2025) & (Tons)

Table 110. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2026-2031) & (Tons)

Table 111. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2025) & (Tons)

Table 112. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2026-2031) & (Tons)

Table 113. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2020-2025) & (Tons)

Table 114. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2026-2031) & (Tons)

Table 115. Europe Magnetic Iron Oxide Nanoparticles Consumption Value by Country

(2020-2025) & (USD Million)

Table 116. Europe Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2026-2031) & (USD Million)

Table 117. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2025) & (Tons)

Table 118. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2026-2031) & (Tons)

Table 119. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2025) & (Tons)

Table 120. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2026-2031) & (Tons)

Table 121. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Region (2020-2025) & (Tons)

Table 122. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity by Region (2026-2031) & (Tons)

Table 123. Asia-Pacific Magnetic Iron Oxide Nanoparticles Consumption Value by Region (2020-2025) & (USD Million)

Table 124. Asia-Pacific Magnetic Iron Oxide Nanoparticles Consumption Value by Region (2026-2031) & (USD Million)

Table 125. South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2025) & (Tons)

Table 126. South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2026-2031) & (Tons)

Table 127. South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2025) & (Tons)

Table 128. South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2026-2031) & (Tons)

Table 129. South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2020-2025) & (Tons)

Table 130. South America Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2026-2031) & (Tons)

Table 131. South America Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2020-2025) & (USD Million)

Table 132. South America Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2026-2031) & (USD Million)

Table 133. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2020-2025) & (Tons)

Table 134. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Type (2026-2031) & (Tons)

Table 135. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2020-2025) & (Tons)

Table 136. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Application (2026-2031) & (Tons)

Table 137. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2020-2025) & (Tons)

Table 138. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity by Country (2026-2031) & (Tons)

Table 139. Middle East & Africa Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2020-2025) & (USD Million)

Table 140. Middle East & Africa Magnetic Iron Oxide Nanoparticles Consumption Value by Country (2026-2031) & (USD Million)

Table 141. Magnetic Iron Oxide Nanoparticles Raw Material

Table 142. Key Manufacturers of Magnetic Iron Oxide Nanoparticles Raw Materials

Table 143. Magnetic Iron Oxide Nanoparticles Typical Distributors

Table 144. Magnetic Iron Oxide Nanoparticles Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Magnetic Iron Oxide Nanoparticles Picture

Figure 2. Global Magnetic Iron Oxide Nanoparticles Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Magnetic Iron Oxide Nanoparticles Revenue Market Share by Type in 2024

Figure 4. Magnetite Nanoparticles Examples

Figure 5. Maghemite Nanoparticles Examples

Figure 6. Global Magnetic Iron Oxide Nanoparticles Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Magnetic Iron Oxide Nanoparticles Revenue Market Share by Application in 2024

Figure 8. Medical Examples

Figure 9. Industrial Examples

Figure 10. Environmental Examples

Figure 11. Others Examples

Figure 12. Global Magnetic Iron Oxide Nanoparticles Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 13. Global Magnetic Iron Oxide Nanoparticles Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 14. Global Magnetic Iron Oxide Nanoparticles Sales Quantity (2020-2031) & (Tons)

Figure 15. Global Magnetic Iron Oxide Nanoparticles Price (2020-2031) & (US\$/kg)

Figure 16. Global Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Manufacturer in 2024

Figure 17. Global Magnetic Iron Oxide Nanoparticles Revenue Market Share by Manufacturer in 2024

Figure 18. Producer Shipments of Magnetic Iron Oxide Nanoparticles by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 19. Top 3 Magnetic Iron Oxide Nanoparticles Manufacturer (Revenue) Market Share in 2024

Figure 20. Top 6 Magnetic Iron Oxide Nanoparticles Manufacturer (Revenue) Market Share in 2024

Figure 21. Global Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Region (2020-2031)

Figure 22. Global Magnetic Iron Oxide Nanoparticles Consumption Value Market Share

by Region (2020-2031)

Figure 23. North America Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 24. Europe Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 25. Asia-Pacific Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 26. South America Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 27. Middle East & Africa Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 28. Global Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Type (2020-2031)

Figure 29. Global Magnetic Iron Oxide Nanoparticles Consumption Value Market Share by Type (2020-2031)

Figure 30. Global Magnetic Iron Oxide Nanoparticles Average Price by Type (2020-2031) & (US\$/kg)

Figure 31. Global Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Application (2020-2031)

Figure 32. Global Magnetic Iron Oxide Nanoparticles Revenue Market Share by Application (2020-2031)

Figure 33. Global Magnetic Iron Oxide Nanoparticles Average Price by Application (2020-2031) & (US\$/kg)

Figure 34. North America Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Type (2020-2031)

Figure 35. North America Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Application (2020-2031)

Figure 36. North America Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Country (2020-2031)

Figure 37. North America Magnetic Iron Oxide Nanoparticles Consumption Value Market Share by Country (2020-2031)

Figure 38. United States Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 39. Canada Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 40. Mexico Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 41. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Type (2020-2031)

Figure 42. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Application (2020-2031)

Figure 43. Europe Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Country (2020-2031)

Figure 44. Europe Magnetic Iron Oxide Nanoparticles Consumption Value Market Share by Country (2020-2031)

Figure 45. Germany Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 46. France Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 47. United Kingdom Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 48. Russia Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 49. Italy Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 50. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Type (2020-2031)

Figure 51. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Application (2020-2031)

Figure 52. Asia-Pacific Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Region (2020-2031)

Figure 53. Asia-Pacific Magnetic Iron Oxide Nanoparticles Consumption Value Market Share by Region (2020-2031)

Figure 54. China Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 55. Japan Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 56. South Korea Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 57. India Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 58. Southeast Asia Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 59. Australia Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 60. South America Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Type (2020-2031)

Figure 61. South America Magnetic Iron Oxide Nanoparticles Sales Quantity Market

Share by Application (2020-2031)

Figure 62. South America Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Country (2020-2031)

Figure 63. South America Magnetic Iron Oxide Nanoparticles Consumption Value Market Share by Country (2020-2031)

Figure 64. Brazil Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 65. Argentina Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 66. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Type (2020-2031)

Figure 67. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Application (2020-2031)

Figure 68. Middle East & Africa Magnetic Iron Oxide Nanoparticles Sales Quantity Market Share by Country (2020-2031)

Figure 69. Middle East & Africa Magnetic Iron Oxide Nanoparticles Consumption Value Market Share by Country (2020-2031)

Figure 70. Turkey Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 71. Egypt Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 72. Saudi Arabia Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 73. South Africa Magnetic Iron Oxide Nanoparticles Consumption Value (2020-2031) & (USD Million)

Figure 74. Magnetic Iron Oxide Nanoparticles Market Drivers

Figure 75. Magnetic Iron Oxide Nanoparticles Market Restraints

Figure 76. Magnetic Iron Oxide Nanoparticles Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Magnetic Iron Oxide Nanoparticles in 2024

Figure 79. Manufacturing Process Analysis of Magnetic Iron Oxide Nanoparticles

Figure 80. Magnetic Iron Oxide Nanoparticles Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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