

Global Magnetic Alloys Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Alloys market size is expected to reach \$ 5567 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

Magnetic alloys are a class of functional metallic materials made by alloying two or more metallic elements or metals and metalloids. They possess tunable ferromagnetic/ferrimagnetic/special magnetic functions. Through composition ratio, crystal phase control and heat treatment processes, the core magnetic parameters such as saturation magnetic induction intensity, permeability, coercivity, Curie temperature, magnetostriction, and magnetoresistance can be customized. They are indispensable core magnetic functional materials in modern electronics, power, new energy, sensing and high-end equipment.

Global production of magnetic alloys is projected to reach 196,000 tons in 2025, with an average price of \$20 per kilogram.

The upstream is strongly influenced by resource attributes, particularly the price volatility of rare earth elements and cobalt, which significantly impacts cost structures. Downstream applications are broad and industry-driven, including transformers, motors, consumer electronics, automotive electric drive systems, and renewable energy equipment. Among these, new energy vehicles, power electronics, and renewable energy systems such as wind and solar storage are the primary growth drivers, accelerating the demand for high-performance magnetic materials. From a development perspective, magnetic alloys are evolving toward higher performance, lower energy loss, miniaturization, and high-frequency operation. Material performance has become a key competitive factor under global energy efficiency and electrification trends. Major growth drivers include energy transition, increasing penetration of electric vehicles, and

the high-frequency development of electronic devices, all of which sustain demand for advanced soft magnetic and rare earth permanent magnet materials. In addition, industrial automation and smart manufacturing further expand application scenarios. However, challenges include raw material price volatility, high supply chain concentration leading to resource risks, and significant technical barriers for high-end materials, limiting new entrants. Meanwhile, alternative material systems, such as rare-earth-free magnetic materials, may pose potential competition. In terms of profitability, the magnetic alloy industry shows significant margin differentiation, typically ranging from 25% to 60%. Low-end soft magnetic materials such as standard silicon steel have relatively low margins, while high-performance soft magnetic alloys and rare earth permanent magnets achieve higher margins due to strong technical barriers and added value. Leading companies maintain strong profitability through material formulation optimization, process control, and economies of scale. As the share of high-end applications increases, overall industry profitability is expected to remain relatively strong, although it will continue to be influenced by raw material price fluctuations and policy regulations.

This report studies the global Magnetic Alloys production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Magnetic Alloys total production and demand, 2021-2032, (Tons)

Global Magnetic Alloys total production value, 2021-2032, (USD Million)

Global Magnetic Alloys production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Magnetic Alloys consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Magnetic Alloys domestic production, consumption, key domestic manufacturers and share

Global Magnetic Alloys production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Magnetic Alloys production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Magnetic Alloys production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Magnetic Alloys 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 VACUUMSCHMELZE, Proterial, Aperam, Carpenter Technology, Daido Steel, Arnold Magnetic Technologies, SEKELS, TOKKIN, Nippon Yakin, VDM Metals, 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 Magnetic Alloys market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Magnetic Alloys Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Alloys Market, Segmentation by Type:

Soft Magnetic Alloys

Permanent Magnet Alloys

Semi-hard Magnetic Alloys

Others

Global Magnetic Alloys Market, Segmentation by Matrix Principal Components:

Iron-based

Nickel-based

Cobalt-based

Rare Earth-based

Iron-nickel-cobalt Multi-component Alloys

Global Magnetic Alloys Market, Segmentation by Microstructure:

Traditional Crystalline Magnetic Alloys

Amorphous Magnetic Alloys

Global Magnetic Alloys Market, Segmentation by Application:

Energy and Power

New Energy Vehicles

Consumer Electronics

Industrial Motors

Aerospace and Military

Others

Companies Profiled:

VACUUMSCHMELZE

Proterial

Aperam

Carpenter Technology

Daido Steel

Arnold Magnetic Technologies

SEKELS

TOKKIN

Nippon Yakin

VDM Metals

Aichi Steel

JFE Steel

Niterra Materials

Makino

Advanced Technology and Materials

Qingdao Yunlu Advanced Materials Technology

China Amorphous Technology

Ningbo B-Plus New Material Technology

SDM Magnetics

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Magnetic Alloys Introduction
- 1.2 World Magnetic Alloys Supply & Forecast
 - 1.2.1 World Magnetic Alloys Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Magnetic Alloys Production (2021-2032)
 - 1.2.3 World Magnetic Alloys Pricing Trends (2021-2032)
- 1.3 World Magnetic Alloys Production by Region (Based on Production Site)
 - 1.3.1 World Magnetic Alloys Production Value by Region (2021-2032)
 - 1.3.2 World Magnetic Alloys Production by Region (2021-2032)
 - 1.3.3 World Magnetic Alloys Average Price by Region (2021-2032)
 - 1.3.4 North America Magnetic Alloys Production (2021-2032)
 - 1.3.5 Europe Magnetic Alloys Production (2021-2032)
 - 1.3.6 China Magnetic Alloys Production (2021-2032)
 - 1.3.7 Japan Magnetic Alloys Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Magnetic Alloys Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Magnetic Alloys Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Magnetic Alloys Demand (2021-2032)
- 2.2 World Magnetic Alloys Consumption by Region
 - 2.2.1 World Magnetic Alloys Consumption by Region (2021-2026)
 - 2.2.2 World Magnetic Alloys Consumption Forecast by Region (2027-2032)
- 2.3 United States Magnetic Alloys Consumption (2021-2032)
- 2.4 China Magnetic Alloys Consumption (2021-2032)
- 2.5 Europe Magnetic Alloys Consumption (2021-2032)
- 2.6 Japan Magnetic Alloys Consumption (2021-2032)
- 2.7 South Korea Magnetic Alloys Consumption (2021-2032)
- 2.8 ASEAN Magnetic Alloys Consumption (2021-2032)
- 2.9 India Magnetic Alloys Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Magnetic Alloys Production Value by Manufacturer (2021-2026)

- 3.2 World Magnetic Alloys Production by Manufacturer (2021-2026)
- 3.3 World Magnetic Alloys Average Price by Manufacturer (2021-2026)
- 3.4 Magnetic Alloys Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Magnetic Alloys Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Magnetic Alloys in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Magnetic Alloys in 2025
- 3.6 Magnetic Alloys Market: Overall Company Footprint Analysis
 - 3.6.1 Magnetic Alloys Market: Region Footprint
 - 3.6.2 Magnetic Alloys Market: Company Product Type Footprint
 - 3.6.3 Magnetic Alloys Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Magnetic Alloys Production Value Comparison
 - 4.1.1 United States VS China: Magnetic Alloys Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Magnetic Alloys Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Magnetic Alloys Production Comparison
 - 4.2.1 United States VS China: Magnetic Alloys Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Magnetic Alloys Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Magnetic Alloys Consumption Comparison
 - 4.3.1 United States VS China: Magnetic Alloys Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Magnetic Alloys Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Magnetic Alloys Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Magnetic Alloys Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Magnetic Alloys Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Magnetic Alloys Production (2021-2026)

4.5 China Based Magnetic Alloys Manufacturers and Market Share

4.5.1 China Based Magnetic Alloys Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Magnetic Alloys Production Value (2021-2026)

4.5.3 China Based Manufacturers Magnetic Alloys Production (2021-2026)

4.6 Rest of World Based Magnetic Alloys Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Magnetic Alloys Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Magnetic Alloys Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Magnetic Alloys Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Magnetic Alloys Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Soft Magnetic Alloys

5.2.2 Permanent Magnet Alloys

5.2.3 Semi-hard Magnetic Alloys

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Magnetic Alloys Production by Type (2021-2032)

5.3.2 World Magnetic Alloys Production Value by Type (2021-2032)

5.3.3 World Magnetic Alloys Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MATRIX PRINCIPAL COMPONENTS

6.1 World Magnetic Alloys Market Size Overview by Matrix Principal Components: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Matrix Principal Components

6.2.1 Iron-based

6.2.2 Nickel-based

6.2.3 Cobalt-based

6.2.4 Rare Earth-based

6.2.5 Iron-nickel-cobalt Multi-component Alloys

6.3 Market Segment by Matrix Principal Components

6.3.1 World Magnetic Alloys Production by Matrix Principal Components (2021-2032)

6.3.2 World Magnetic Alloys Production Value by Matrix Principal Components (2021-2032)

6.3.3 World Magnetic Alloys Average Price by Matrix Principal Components (2021-2032)

7 MARKET ANALYSIS BY MICROSTRUCTURE

7.1 World Magnetic Alloys Market Size Overview by Microstructure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Microstructure

7.2.1 Traditional Crystalline Magnetic Alloys

7.2.2 Amorphous Magnetic Alloys

7.3 Market Segment by Microstructure

7.3.1 World Magnetic Alloys Production by Microstructure (2021-2032)

7.3.2 World Magnetic Alloys Production Value by Microstructure (2021-2032)

7.3.3 World Magnetic Alloys Average Price by Microstructure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Magnetic Alloys Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Energy and Power

8.2.2 New Energy Vehicles

8.2.3 Consumer Electronics

8.2.4 Industrial Motors

8.2.5 Aerospace and Military

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Magnetic Alloys Production by Application (2021-2032)

8.3.2 World Magnetic Alloys Production Value by Application (2021-2032)

8.3.3 World Magnetic Alloys Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 VACUUMSCHMELZE

9.1.1 VACUUMSCHMELZE Details

9.1.2 VACUUMSCHMELZE Major Business

9.1.3 VACUUMSCHMELZE Magnetic Alloys Product and Services

9.1.4 VACUUMSCHMELZE Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 VACUUMSCHMELZE Recent Developments/Updates

9.1.6 VACUUMSCHMELZE Competitive Strengths & Weaknesses

9.2 Proterial

9.2.1 Proterial Details

9.2.2 Proterial Major Business

9.2.3 Proterial Magnetic Alloys Product and Services

9.2.4 Proterial Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Proterial Recent Developments/Updates

9.2.6 Proterial Competitive Strengths & Weaknesses

9.3 Aperam

9.3.1 Aperam Details

9.3.2 Aperam Major Business

9.3.3 Aperam Magnetic Alloys Product and Services

9.3.4 Aperam Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Aperam Recent Developments/Updates

9.3.6 Aperam Competitive Strengths & Weaknesses

9.4 Carpenter Technology

9.4.1 Carpenter Technology Details

9.4.2 Carpenter Technology Major Business

9.4.3 Carpenter Technology Magnetic Alloys Product and Services

9.4.4 Carpenter Technology Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Carpenter Technology Recent Developments/Updates

9.4.6 Carpenter Technology Competitive Strengths & Weaknesses

9.5 Daido Steel

9.5.1 Daido Steel Details

9.5.2 Daido Steel Major Business

9.5.3 Daido Steel Magnetic Alloys Product and Services

9.5.4 Daido Steel Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Daido Steel Recent Developments/Updates

9.5.6 Daido Steel Competitive Strengths & Weaknesses

9.6 Arnold Magnetic Technologies

9.6.1 Arnold Magnetic Technologies Details

9.6.2 Arnold Magnetic Technologies Major Business

- 9.6.3 Arnold Magnetic Technologies Magnetic Alloys Product and Services
- 9.6.4 Arnold Magnetic Technologies Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Arnold Magnetic Technologies Recent Developments/Updates
- 9.6.6 Arnold Magnetic Technologies Competitive Strengths & Weaknesses
- 9.7 SEKELS
 - 9.7.1 SEKELS Details
 - 9.7.2 SEKELS Major Business
 - 9.7.3 SEKELS Magnetic Alloys Product and Services
 - 9.7.4 SEKELS Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 SEKELS Recent Developments/Updates
 - 9.7.6 SEKELS Competitive Strengths & Weaknesses
- 9.8 TOKKIN
 - 9.8.1 TOKKIN Details
 - 9.8.2 TOKKIN Major Business
 - 9.8.3 TOKKIN Magnetic Alloys Product and Services
 - 9.8.4 TOKKIN Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 TOKKIN Recent Developments/Updates
 - 9.8.6 TOKKIN Competitive Strengths & Weaknesses
- 9.9 Nippon Yakin
 - 9.9.1 Nippon Yakin Details
 - 9.9.2 Nippon Yakin Major Business
 - 9.9.3 Nippon Yakin Magnetic Alloys Product and Services
 - 9.9.4 Nippon Yakin Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Nippon Yakin Recent Developments/Updates
 - 9.9.6 Nippon Yakin Competitive Strengths & Weaknesses
- 9.10 VDM Metals
 - 9.10.1 VDM Metals Details
 - 9.10.2 VDM Metals Major Business
 - 9.10.3 VDM Metals Magnetic Alloys Product and Services
 - 9.10.4 VDM Metals Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 VDM Metals Recent Developments/Updates
 - 9.10.6 VDM Metals Competitive Strengths & Weaknesses
- 9.11 Aichi Steel
 - 9.11.1 Aichi Steel Details

- 9.11.2 Aichi Steel Major Business
- 9.11.3 Aichi Steel Magnetic Alloys Product and Services
- 9.11.4 Aichi Steel Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Aichi Steel Recent Developments/Updates
- 9.11.6 Aichi Steel Competitive Strengths & Weaknesses
- 9.12 JFE Steel
 - 9.12.1 JFE Steel Details
 - 9.12.2 JFE Steel Major Business
 - 9.12.3 JFE Steel Magnetic Alloys Product and Services
 - 9.12.4 JFE Steel Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 JFE Steel Recent Developments/Updates
 - 9.12.6 JFE Steel Competitive Strengths & Weaknesses
- 9.13 Niterra Materials
 - 9.13.1 Niterra Materials Details
 - 9.13.2 Niterra Materials Major Business
 - 9.13.3 Niterra Materials Magnetic Alloys Product and Services
 - 9.13.4 Niterra Materials Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Niterra Materials Recent Developments/Updates
 - 9.13.6 Niterra Materials Competitive Strengths & Weaknesses
- 9.14 Makino
 - 9.14.1 Makino Details
 - 9.14.2 Makino Major Business
 - 9.14.3 Makino Magnetic Alloys Product and Services
 - 9.14.4 Makino Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Makino Recent Developments/Updates
 - 9.14.6 Makino Competitive Strengths & Weaknesses
- 9.15 Advanced Technology and Materials
 - 9.15.1 Advanced Technology and Materials Details
 - 9.15.2 Advanced Technology and Materials Major Business
 - 9.15.3 Advanced Technology and Materials Magnetic Alloys Product and Services
 - 9.15.4 Advanced Technology and Materials Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Advanced Technology and Materials Recent Developments/Updates
 - 9.15.6 Advanced Technology and Materials Competitive Strengths & Weaknesses
- 9.16 Qingdao Yunlu Advanced Materials Technology

- 9.16.1 Qingdao Yunlu Advanced Materials Technology Details
- 9.16.2 Qingdao Yunlu Advanced Materials Technology Major Business
- 9.16.3 Qingdao Yunlu Advanced Materials Technology Magnetic Alloys Product and Services
- 9.16.4 Qingdao Yunlu Advanced Materials Technology Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Qingdao Yunlu Advanced Materials Technology Recent Developments/Updates
- 9.16.6 Qingdao Yunlu Advanced Materials Technology Competitive Strengths & Weaknesses
- 9.17 China Amorphous Technology
 - 9.17.1 China Amorphous Technology Details
 - 9.17.2 China Amorphous Technology Major Business
 - 9.17.3 China Amorphous Technology Magnetic Alloys Product and Services
 - 9.17.4 China Amorphous Technology Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 China Amorphous Technology Recent Developments/Updates
 - 9.17.6 China Amorphous Technology Competitive Strengths & Weaknesses
- 9.18 Ningbo B-Plus New Material Technology
 - 9.18.1 Ningbo B-Plus New Material Technology Details
 - 9.18.2 Ningbo B-Plus New Material Technology Major Business
 - 9.18.3 Ningbo B-Plus New Material Technology Magnetic Alloys Product and Services
 - 9.18.4 Ningbo B-Plus New Material Technology Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Ningbo B-Plus New Material Technology Recent Developments/Updates
 - 9.18.6 Ningbo B-Plus New Material Technology Competitive Strengths & Weaknesses
- 9.19 SDM Magnetics
 - 9.19.1 SDM Magnetics Details
 - 9.19.2 SDM Magnetics Major Business
 - 9.19.3 SDM Magnetics Magnetic Alloys Product and Services
 - 9.19.4 SDM Magnetics Magnetic Alloys Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 SDM Magnetics Recent Developments/Updates
 - 9.19.6 SDM Magnetics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Magnetic Alloys Industry Chain
- 10.2 Magnetic Alloys Upstream Analysis
 - 10.2.1 Magnetic Alloys Core Raw Materials

- 10.2.2 Main Manufacturers of Magnetic Alloys Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Magnetic Alloys Production Mode
- 10.6 Magnetic Alloys Procurement Model
- 10.7 Magnetic Alloys Industry Sales Model and Sales Channels
 - 10.7.1 Magnetic Alloys Sales Model
 - 10.7.2 Magnetic Alloys Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Magnetic Alloys Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Magnetic Alloys Production Value by Region (2021-2026) & (USD Million)

Table 3. World Magnetic Alloys Production Value by Region (2027-2032) & (USD Million)

Table 4. World Magnetic Alloys Production Value Market Share by Region (2021-2026)

Table 5. World Magnetic Alloys Production Value Market Share by Region (2027-2032)

Table 6. World Magnetic Alloys Production by Region (2021-2026) & (Tons)

Table 7. World Magnetic Alloys Production by Region (2027-2032) & (Tons)

Table 8. World Magnetic Alloys Production Market Share by Region (2021-2026)

Table 9. World Magnetic Alloys Production Market Share by Region (2027-2032)

Table 10. World Magnetic Alloys Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Magnetic Alloys Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Magnetic Alloys Major Market Trends

Table 13. World Magnetic Alloys Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Magnetic Alloys Consumption by Region (2021-2026) & (Tons)

Table 15. World Magnetic Alloys Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Magnetic Alloys Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Magnetic Alloys Producers in 2025

Table 18. World Magnetic Alloys Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Magnetic Alloys Producers in 2025

Table 20. World Magnetic Alloys Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Magnetic Alloys Company Evaluation Quadrant

Table 22. World Magnetic Alloys Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Magnetic Alloys Production Site of Key Manufacturer

Table 24. Magnetic Alloys Market: Company Product Type Footprint

Table 25. Magnetic Alloys Market: Company Product Application Footprint

Table 26. Magnetic Alloys Competitive Factors

Table 27. Magnetic Alloys New Entrant and Capacity Expansion Plans

- Table 28. Magnetic Alloys Mergers & Acquisitions Activity
- Table 29. United States VS China Magnetic Alloys Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Magnetic Alloys Production Comparison, (2021 & 2025 & 2032) & (Tons)
- Table 31. United States VS China Magnetic Alloys Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
- Table 32. United States Based Magnetic Alloys Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Magnetic Alloys Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Magnetic Alloys Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Magnetic Alloys Production (2021-2026) & (Tons)
- Table 36. United States Based Manufacturers Magnetic Alloys Production Market Share (2021-2026)
- Table 37. China Based Magnetic Alloys Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Magnetic Alloys Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Magnetic Alloys Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Magnetic Alloys Production, (2021-2026) & (Tons)
- Table 41. China Based Manufacturers Magnetic Alloys Production Market Share (2021-2026)
- Table 42. Rest of World Based Magnetic Alloys Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Magnetic Alloys Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Magnetic Alloys Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Magnetic Alloys Production, (2021-2026) & (Tons)
- Table 46. Rest of World Based Manufacturers Magnetic Alloys Production Market Share (2021-2026)
- Table 47. World Magnetic Alloys Production Value by Type, (USD Million), 2021 & 2025 & 2032

- Table 48. World Magnetic Alloys Production by Type (2021-2026) & (Tons)
- Table 49. World Magnetic Alloys Production by Type (2027-2032) & (Tons)
- Table 50. World Magnetic Alloys Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Magnetic Alloys Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Magnetic Alloys Average Price by Type (2021-2026) & (US\$/kg)
- Table 53. World Magnetic Alloys Average Price by Type (2027-2032) & (US\$/kg)
- Table 54. World Magnetic Alloys Production Value by Matrix Principal Components, (USD Million), 2021 & 2025 & 2032
- Table 55. World Magnetic Alloys Production by Matrix Principal Components (2021-2026) & (Tons)
- Table 56. World Magnetic Alloys Production by Matrix Principal Components (2027-2032) & (Tons)
- Table 57. World Magnetic Alloys Production Value by Matrix Principal Components (2021-2026) & (USD Million)
- Table 58. World Magnetic Alloys Production Value by Matrix Principal Components (2027-2032) & (USD Million)
- Table 59. World Magnetic Alloys Average Price by Matrix Principal Components (2021-2026) & (US\$/kg)
- Table 60. World Magnetic Alloys Average Price by Matrix Principal Components (2027-2032) & (US\$/kg)
- Table 61. World Magnetic Alloys Production Value by Microstructure, (USD Million), 2021 & 2025 & 2032
- Table 62. World Magnetic Alloys Production by Microstructure (2021-2026) & (Tons)
- Table 63. World Magnetic Alloys Production by Microstructure (2027-2032) & (Tons)
- Table 64. World Magnetic Alloys Production Value by Microstructure (2021-2026) & (USD Million)
- Table 65. World Magnetic Alloys Production Value by Microstructure (2027-2032) & (USD Million)
- Table 66. World Magnetic Alloys Average Price by Microstructure (2021-2026) & (US\$/kg)
- Table 67. World Magnetic Alloys Average Price by Microstructure (2027-2032) & (US\$/kg)
- Table 68. World Magnetic Alloys Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Magnetic Alloys Production by Application (2021-2026) & (Tons)
- Table 70. World Magnetic Alloys Production by Application (2027-2032) & (Tons)
- Table 71. World Magnetic Alloys Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Magnetic Alloys Production Value by Application (2027-2032) & (USD

Million)

Table 73. World Magnetic Alloys Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Magnetic Alloys Average Price by Application (2027-2032) & (US\$/kg)

Table 75. VACUUMSCHMELZE Basic Information, Manufacturing Base and Competitors

Table 76. VACUUMSCHMELZE Major Business

Table 77. VACUUMSCHMELZE Magnetic Alloys Product and Services

Table 78. VACUUMSCHMELZE Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. VACUUMSCHMELZE Recent Developments/Updates

Table 80. VACUUMSCHMELZE Competitive Strengths & Weaknesses

Table 81. Proterial Basic Information, Manufacturing Base and Competitors

Table 82. Proterial Major Business

Table 83. Proterial Magnetic Alloys Product and Services

Table 84. Proterial Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Proterial Recent Developments/Updates

Table 86. Proterial Competitive Strengths & Weaknesses

Table 87. Aperam Basic Information, Manufacturing Base and Competitors

Table 88. Aperam Major Business

Table 89. Aperam Magnetic Alloys Product and Services

Table 90. Aperam Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Aperam Recent Developments/Updates

Table 92. Aperam Competitive Strengths & Weaknesses

Table 93. Carpenter Technology Basic Information, Manufacturing Base and Competitors

Table 94. Carpenter Technology Major Business

Table 95. Carpenter Technology Magnetic Alloys Product and Services

Table 96. Carpenter Technology Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Carpenter Technology Recent Developments/Updates

Table 98. Carpenter Technology Competitive Strengths & Weaknesses

Table 99. Daido Steel Basic Information, Manufacturing Base and Competitors

Table 100. Daido Steel Major Business

Table 101. Daido Steel Magnetic Alloys Product and Services

Table 102. Daido Steel Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Daido Steel Recent Developments/Updates

- Table 104. Daido Steel Competitive Strengths & Weaknesses
- Table 105. Arnold Magnetic Technologies Basic Information, Manufacturing Base and Competitors
- Table 106. Arnold Magnetic Technologies Major Business
- Table 107. Arnold Magnetic Technologies Magnetic Alloys Product and Services
- Table 108. Arnold Magnetic Technologies Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Arnold Magnetic Technologies Recent Developments/Updates
- Table 110. Arnold Magnetic Technologies Competitive Strengths & Weaknesses
- Table 111. SEKELS Basic Information, Manufacturing Base and Competitors
- Table 112. SEKELS Major Business
- Table 113. SEKELS Magnetic Alloys Product and Services
- Table 114. SEKELS Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. SEKELS Recent Developments/Updates
- Table 116. SEKELS Competitive Strengths & Weaknesses
- Table 117. TOKKIN Basic Information, Manufacturing Base and Competitors
- Table 118. TOKKIN Major Business
- Table 119. TOKKIN Magnetic Alloys Product and Services
- Table 120. TOKKIN Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. TOKKIN Recent Developments/Updates
- Table 122. TOKKIN Competitive Strengths & Weaknesses
- Table 123. Nippon Yakin Basic Information, Manufacturing Base and Competitors
- Table 124. Nippon Yakin Major Business
- Table 125. Nippon Yakin Magnetic Alloys Product and Services
- Table 126. Nippon Yakin Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Nippon Yakin Recent Developments/Updates
- Table 128. Nippon Yakin Competitive Strengths & Weaknesses
- Table 129. VDM Metals Basic Information, Manufacturing Base and Competitors
- Table 130. VDM Metals Major Business
- Table 131. VDM Metals Magnetic Alloys Product and Services
- Table 132. VDM Metals Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. VDM Metals Recent Developments/Updates
- Table 134. VDM Metals Competitive Strengths & Weaknesses
- Table 135. Aichi Steel Basic Information, Manufacturing Base and Competitors
- Table 136. Aichi Steel Major Business

- Table 137. Aichi Steel Magnetic Alloys Product and Services
- Table 138. Aichi Steel Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Aichi Steel Recent Developments/Updates
- Table 140. Aichi Steel Competitive Strengths & Weaknesses
- Table 141. JFE Steel Basic Information, Manufacturing Base and Competitors
- Table 142. JFE Steel Major Business
- Table 143. JFE Steel Magnetic Alloys Product and Services
- Table 144. JFE Steel Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. JFE Steel Recent Developments/Updates
- Table 146. JFE Steel Competitive Strengths & Weaknesses
- Table 147. Niterra Materials Basic Information, Manufacturing Base and Competitors
- Table 148. Niterra Materials Major Business
- Table 149. Niterra Materials Magnetic Alloys Product and Services
- Table 150. Niterra Materials Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Niterra Materials Recent Developments/Updates
- Table 152. Niterra Materials Competitive Strengths & Weaknesses
- Table 153. Makino Basic Information, Manufacturing Base and Competitors
- Table 154. Makino Major Business
- Table 155. Makino Magnetic Alloys Product and Services
- Table 156. Makino Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Makino Recent Developments/Updates
- Table 158. Makino Competitive Strengths & Weaknesses
- Table 159. Advanced Technology and Materials Basic Information, Manufacturing Base and Competitors
- Table 160. Advanced Technology and Materials Major Business
- Table 161. Advanced Technology and Materials Magnetic Alloys Product and Services
- Table 162. Advanced Technology and Materials Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Advanced Technology and Materials Recent Developments/Updates
- Table 164. Advanced Technology and Materials Competitive Strengths & Weaknesses
- Table 165. Qingdao Yunlu Advanced Materials Technology Basic Information, Manufacturing Base and Competitors
- Table 166. Qingdao Yunlu Advanced Materials Technology Major Business
- Table 167. Qingdao Yunlu Advanced Materials Technology Magnetic Alloys Product

and Services

Table 168. Qingdao Yunlu Advanced Materials Technology Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Qingdao Yunlu Advanced Materials Technology Recent Developments/Updates

Table 170. Qingdao Yunlu Advanced Materials Technology Competitive Strengths & Weaknesses

Table 171. China Amorphous Technology Basic Information, Manufacturing Base and Competitors

Table 172. China Amorphous Technology Major Business

Table 173. China Amorphous Technology Magnetic Alloys Product and Services

Table 174. China Amorphous Technology Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. China Amorphous Technology Recent Developments/Updates

Table 176. China Amorphous Technology Competitive Strengths & Weaknesses

Table 177. Ningbo B-Plus New Material Technology Basic Information, Manufacturing Base and Competitors

Table 178. Ningbo B-Plus New Material Technology Major Business

Table 179. Ningbo B-Plus New Material Technology Magnetic Alloys Product and Services

Table 180. Ningbo B-Plus New Material Technology Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Ningbo B-Plus New Material Technology Recent Developments/Updates

Table 182. Ningbo B-Plus New Material Technology Competitive Strengths & Weaknesses

Table 183. SDM Magnetics Basic Information, Manufacturing Base and Competitors

Table 184. SDM Magnetics Major Business

Table 185. SDM Magnetics Magnetic Alloys Product and Services

Table 186. SDM Magnetics Magnetic Alloys Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. SDM Magnetics Recent Developments/Updates

Table 188. SDM Magnetics Competitive Strengths & Weaknesses

Table 189. Global Key Players of Magnetic Alloys Upstream (Raw Materials)

Table 190. Global Magnetic Alloys Typical Customers

Table 191. Magnetic Alloys Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Magnetic Alloys Picture

Figure 2. World Magnetic Alloys Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Magnetic Alloys Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Magnetic Alloys Production (2021-2032) & (Tons)

Figure 5. World Magnetic Alloys Average Price (2021-2032) & (US\$/kg)

Figure 6. World Magnetic Alloys Production Value Market Share by Region (2021-2032)

Figure 7. World Magnetic Alloys Production Market Share by Region (2021-2032)

Figure 8. North America Magnetic Alloys Production (2021-2032) & (Tons)

Figure 9. Europe Magnetic Alloys Production (2021-2032) & (Tons)

Figure 10. China Magnetic Alloys Production (2021-2032) & (Tons)

Figure 11. Japan Magnetic Alloys Production (2021-2032) & (Tons)

Figure 12. Magnetic Alloys Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 15. World Magnetic Alloys Consumption Market Share by Region (2021-2032)

Figure 16. United States Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 17. China Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 18. Europe Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 19. Japan Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 20. South Korea Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 22. India Magnetic Alloys Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Magnetic Alloys by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Magnetic Alloys Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Magnetic Alloys Markets in 2025

Figure 26. United States VS China: Magnetic Alloys Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Magnetic Alloys Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Magnetic Alloys Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Magnetic Alloys Production Market Share 2025

Figure 30. China Based Manufacturers Magnetic Alloys Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Magnetic Alloys Production Market Share 2025

Figure 32. World Magnetic Alloys Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Magnetic Alloys Production Value Market Share by Type in 2025

Figure 34. Soft Magnetic Alloys

Figure 35. Permanent Magnet Alloys

Figure 36. Semi-hard Magnetic Alloys

Figure 37. Others

Figure 38. World Magnetic Alloys Production Market Share by Type (2021-2032)

Figure 39. World Magnetic Alloys Production Value Market Share by Type (2021-2032)

Figure 40. World Magnetic Alloys Average Price by Type (2021-2032) & (US\$/kg)

Figure 41. World Magnetic Alloys Production Value by Matrix Principal Components, (USD Million), 2021 & 2025 & 2032

Figure 42. World Magnetic Alloys Production Value Market Share by Matrix Principal Components in 2025

Figure 43. Iron-based

Figure 44. Nickel-based

Figure 45. Cobalt-based

Figure 46. Rare Earth-based

Figure 47. Iron-nickel-cobalt Multi-component Alloys

Figure 48. World Magnetic Alloys Production Market Share by Matrix Principal Components (2021-2032)

Figure 49. World Magnetic Alloys Production Value Market Share by Matrix Principal Components (2021-2032)

Figure 50. World Magnetic Alloys Average Price by Matrix Principal Components (2021-2032) & (US\$/kg)

Figure 51. World Magnetic Alloys Production Value by Microstructure, (USD Million), 2021 & 2025 & 2032

Figure 52. World Magnetic Alloys Production Value Market Share by Microstructure in 2025

Figure 53. Traditional Crystalline Magnetic Alloys

Figure 54. Amorphous Magnetic Alloys

Figure 55. World Magnetic Alloys Production Market Share by Microstructure (2021-2032)

Figure 56. World Magnetic Alloys Production Value Market Share by Microstructure

(2021-2032)

Figure 57. World Magnetic Alloys Average Price by Microstructure (2021-2032) & (US\$/kg)

Figure 58. World Magnetic Alloys Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Magnetic Alloys Production Value Market Share by Application in 2025

Figure 60. Energy and Power

Figure 61. New Energy Vehicles

Figure 62. Consumer Electronics

Figure 63. Industrial Motors

Figure 64. Aerospace and Military

Figure 65. Others

Figure 66. World Magnetic Alloys Production Market Share by Application (2021-2032)

Figure 67. World Magnetic Alloys Production Value Market Share by Application (2021-2032)

Figure 68. World Magnetic Alloys Average Price by Application (2021-2032) & (US\$/kg)

Figure 69. Magnetic Alloys Industry Chain

Figure 70. Magnetic Alloys Procurement Model

Figure 71. Magnetic Alloys Sales Model

Figure 72. Magnetic Alloys Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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