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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

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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

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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

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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

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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

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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?

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Contents

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4 UNITED STATES VS CHINA VS REST OF THE WORLD

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5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY MATRIX PRINCIPAL COMPONENTS

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10 INDUSTRY CHAIN ANALYSIS

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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