

Global Cast AlNiCo Permanent Magnets Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Cast AlNiCo Permanent Magnets market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Cast AlNiCo magnets are produced by traditional casting process. First, raw materials with different compositions are melted and poured into sand molds, and then the blanks are heat treated, cooled and tempered. The hard magnetism of AlNiCo magnets originates from a two-phase nanocomposite structure composed of a ferromagnetic FeCo-rich phase and a nonmagnetic AlNi-rich phase formed by high-temperature homogeneous amplitude modulation decomposition. The FeCo phase has the highest saturation magnetization and high Curie temperature so far, but the magnetocrystalline anisotropy is very low, which is not enough to induce strong coercive force. Since the magnetic properties depend on the different saturation magnetization of the two phases and the shape anisotropy of the ferromagnetic phase, in order to obtain high coercivity and remanence, AlNiCo alloys must have columnar crystals with reasonable orientation and high magnetic anisotropy . The Curie temperature of AlNiCo magnets can reach 890°C, which has excellent temperature resistance, high temperature stability and corrosion resistance. It is still widely used in the automotive industry, instrumentation, electroacoustics, teaching, aerospace and military, etc. field.

This report studies the global Cast AlNiCo Permanent Magnets production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cast AlNiCo Permanent Magnets, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cast AlNiCo Permanent



Magnets that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cast AlNiCo Permanent Magnets total production and demand, 2018-2029, (Tons)

Global Cast AlNiCo Permanent Magnets total production value, 2018-2029, (USD Million)

Global Cast AlNiCo Permanent Magnets production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Cast AlNiCo Permanent Magnets consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Cast AlNiCo Permanent Magnets domestic production, consumption, key domestic manufacturers and share

Global Cast AlNiCo Permanent Magnets production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Cast AlNiCo Permanent Magnets production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Cast AlNiCo Permanent Magnets production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global Cast AlNiCo Permanent Magnets 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 Thomas & Skinner, Newland Magnetics SAS, Arnold Magnetic Technologies, Stanford Magnets, Adams Magnetic Products, TEDAMAG, Dailymag, SDM Magnetics and Flygain Precision Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.



Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cast AlNiCo Permanent Magnets market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Cast AlNiCo Permanent Magnets Market, By Region:

United States China Europe Japan South Korea ASEAN India Rest of World

Global Cast AlNiCo Permanent Magnets Market, Segmentation by Type

Columnar Type

Lumpy Type

Others



Global Cast AlNiCo Permanent Magnets Market, Segmentation by Application

Automotive Field

Inverter Home Appliances

Consumer Electronics

Medical

Others

Companies Profiled:

Thomas & Skinner

Newland Magnetics SAS

Arnold Magnetic Technologies

Stanford Magnets

Adams Magnetic Products

TEDAMAG

Dailymag

SDM Magnetics

Flygain Precision Technology

Hangzhou Xieli Magnetic Materials

Golden South Magnetic

North Magnet



Hefei Hansheng Magnetoelectric Technology

Hangzhou Leader Magnet

Key Questions Answered

1. How big is the global Cast AlNiCo Permanent Magnets market?

2. What is the demand of the global Cast AlNiCo Permanent Magnets market?

3. What is the year over year growth of the global Cast AlNiCo Permanent Magnets market?

4. What is the production and production value of the global Cast AlNiCo Permanent Magnets market?

5. Who are the key producers in the global Cast AlNiCo Permanent Magnets market?

6. What are the growth factors driving the market demand?



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