

Global AI Metal Soft Magnetic Powder Cores Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Metal Soft Magnetic Powder Cores market size is expected to reach \$ 993 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

AI Metal Soft Magnetic Powder Cores are magnetic core materials made from metal-based soft magnetic powders (such as iron, iron-silicon, iron-nickel, or iron-based alloys) that are compacted and insulated to form high-performance magnetic cores used in AI computing power systems and high-frequency power electronics. These powder cores are widely used in inductors, chokes, and transformers in AI servers, data center power supplies, GPUs, and high-efficiency DC-DC converters. In 2025, global AI Metal Soft Magnetic Powder Cores production reached approximately 96 k tons, with an average global market price of around 6000 USD/ton. The production capacity for AI Metal Soft Magnetic Powder Cores in 2025 was approximately 100 k tons. The typical gross profit margin for AI Metal Soft Magnetic Powder Cores between 20% and 40%.

The AI Metal Soft Magnetic Powder Cores market is driven by the increasing demand for energy-efficient power conversion, electric vehicles, and renewable energy systems. Rising adoption of high-frequency switching power supplies and compact, high-performance electronic devices is expanding the market. Key trends include development of nanocrystalline alloys, high-temperature tolerant cores, and improved manufacturing techniques to reduce core loss and improve performance.

This report studies the global AI Metal Soft Magnetic Powder Cores production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Metal

Soft Magnetic Powder Cores 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 AI Metal Soft Magnetic Powder Cores that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Metal Soft Magnetic Powder Cores total production and demand, 2021-2032, (Tons)

Global AI Metal Soft Magnetic Powder Cores total production value, 2021-2032, (USD Million)

Global AI Metal Soft Magnetic Powder Cores production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global AI Metal Soft Magnetic Powder Cores consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: AI Metal Soft Magnetic Powder Cores domestic production, consumption, key domestic manufacturers and share

Global AI Metal Soft Magnetic Powder Cores production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global AI Metal Soft Magnetic Powder Cores production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global AI Metal Soft Magnetic Powder Cores production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global AI Metal Soft Magnetic Powder Cores 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 Changsung Corp, Magnetics, Micrometals, Proterial, Ltd., Zhejiang NBTM Keda Magnetolectricity, POCO Holding Co., Ltd., Hengdian Group DMEGC Magnetics, 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 AI Metal Soft Magnetic Powder Cores 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Metal Soft Magnetic Powder Cores Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Metal Soft Magnetic Powder Cores Market, Segmentation by Type:

Sendust (Fe-Si-Al)

High-Flux (Fe-Ni)

Fe-Si Powder Core

Others

Global AI Metal Soft Magnetic Powder Cores Market, Segmentation by Shape:

Toroidal Core

E-type / I-type Refill

Rectangular Core

Global AI Metal Soft Magnetic Powder Cores Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Changsung Corp

Magnetics

Micrometals

Proterial, Ltd.

Zhejiang NBTM Keda Magnetolectricity

POCO Holding Co., Ltd.

Hengdian Group DMEGC Magnetics

Key Questions Answered:

1. How big is the global AI Metal Soft Magnetic Powder Cores market?
2. What is the demand of the global AI Metal Soft Magnetic Powder Cores market?

3. What is the year over year growth of the global AI Metal Soft Magnetic Powder Cores market?
4. What is the production and production value of the global AI Metal Soft Magnetic Powder Cores market?
5. Who are the key producers in the global AI Metal Soft Magnetic Powder Cores market?
6. What are the growth factors driving the market demand?

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