

Global AI Metal Soft Magnetic Powder Cores Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Metal Soft Magnetic Powder Cores market size was valued at US\$ 593 million in 2025 and is forecast to a readjusted size of US\$ 993 million by 2032 with a CAGR of 8.2% during review period.

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 is a detailed and comprehensive analysis for global AI Metal Soft Magnetic Powder Cores 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 AI Metal Soft Magnetic Powder Cores market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AI Metal Soft Magnetic Powder Cores market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AI Metal Soft Magnetic Powder Cores market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AI Metal Soft Magnetic Powder Cores market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

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 AI Metal Soft Magnetic Powder Cores

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 AI Metal Soft Magnetic Powder Cores 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 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.

Market Segmentation

AI Metal Soft Magnetic Powder Cores market is split by Type and by Application. For the period 2021-2032, 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

Sendust (Fe-Si-Al)

High-Flux (Fe-Ni)

Fe-Si Powder Core

Others

Market segment by Shape

Toroidal Core

E-type / I-type Refill

Rectangular Core

Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Major players covered

Changsung Corp

Magnetics

Micrometals

Proterial, Ltd.

Zhejiang NBTM Keda Magnetolectricity

POCO Holding Co., Ltd.

Hengdian Group DMEGC Magnetics

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 AI Metal Soft Magnetic Powder Cores product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Metal Soft Magnetic Powder Cores, with price, sales quantity, revenue, and global market share of AI Metal Soft Magnetic Powder Cores from 2021 to 2026.

Chapter 3, the AI Metal Soft Magnetic Powder Cores competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Metal Soft Magnetic Powder Cores breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and AI Metal Soft Magnetic Powder Cores market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 AI Metal Soft Magnetic Powder Cores.

Chapter 14 and 15, to describe AI Metal Soft Magnetic Powder Cores sales channel, distributors, customers, research findings and conclusion.

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