

# Global Nanocrystalline Powder Core Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Nanocrystalline Powder Core market size is expected to reach \$ 204 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of nanocrystalline magnetic cores reached 2,800 tons, with an average selling price of US\$42,000 per ton. Nanocrystalline magnetic cores are high-performance magnetic materials made from nanocrystalline iron-based alloys through powder metallurgy or rapid solidification processes. They possess high saturation magnetic induction, low loss, and excellent high-frequency characteristics, and are widely used in high-frequency transformers, magnetic inductors, power electronic equipment, and new energy inverters. They can effectively improve power efficiency, reduce energy consumption, and support miniaturized designs. The industry's total capacity is approximately 3,500 tons, with a gross profit margin of 30%-40%.

Downstream suppliers are mainly electronic component manufacturers, power system integrators, and power equipment manufacturers. Future growth prospects lie in the rapid development of high-frequency, high-power applications, new energy and electric vehicle electronic systems, and smart grid equipment. Demand is driven by high-efficiency energy saving and the miniaturization upgrade of electronic equipment. Business opportunities lie in the continued growth of replacing traditional soft magnetic materials, promoting the efficiency improvement of electronic systems, and supporting the application of high-frequency power electronics.

The nanocrystalline powder core market is in a phase of steady expansion, primarily driven by the rapid growth in applications such as new energy, electric vehicles, high-frequency switching power supplies, and smart grids. Its advantages lie in low loss, high saturation magnetic induction, and excellent high-frequency performance, making it

increasingly replace traditional iron-silicon steel sheets and soft magnetic materials in high-efficiency, miniaturized, and high-power electronic devices. The high-end market is highly concentrated, with European, American, and Japanese companies leading in technology, while domestic and emerging Asian manufacturers are accelerating their penetration due to cost advantages and rapid response capabilities. Short-term market demand mainly comes from new energy inverters, electric vehicle drives, and communication power supplies, while long-term growth will benefit from the continued increase in demand for high-performance magnetic components in 5G communications, energy storage systems, and smart manufacturing equipment.

The industry has high technical barriers, including precision in powder preparation, nanocrystallization processing, and sintering process control, which puts pressure on the profit margins of low-end products. Suppliers with high-performance, customized, and system integration capabilities will gain a larger market share. Overall, the nanocrystalline powder core market still has long-term growth potential, and technological innovation and application expansion will be key to future competition.

This report studies the global Nanocrystalline Powder Core production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Nanocrystalline Powder Core total production and demand, 2021-2032, (Tons)

Global Nanocrystalline Powder Core total production value, 2021-2032, (USD Million)

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

Global Nanocrystalline Powder Core consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nanocrystalline Powder Core domestic production, consumption, key domestic manufacturers and share

Global Nanocrystalline Powder Core production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nanocrystalline Powder Core production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nanocrystalline Powder Core production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nanocrystalline Powder Core 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 Acal BFi, NanoAmor, Transmart, Hill Technical Sales, Mag Inc., SS Electronics, Catech, TI-Electronic, GAOTUNE, Shinhom, 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 Nanocrystalline Powder Core 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 Nanocrystalline Powder Core Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nanocrystalline Powder Core Market, Segmentation by Type:

Atomized Nanocrystalline Powder

Ball-milled Powder

Water-atomized Powder

Global Nanocrystalline Powder Core Market, Segmentation by Preparation Process:

Mechanical Alloying Method

Rapid Quenching Method

Chemical Method

Global Nanocrystalline Powder Core Market, Segmentation by Chemical Composition:

Fe-Si-B-Nb-Cu System

Fe-(Zr/Hf/Nb)-B System

Others

Global Nanocrystalline Powder Core Market, Segmentation by Application:

Electronic Power

Communications

New Energy

Others

**Companies Profiled:**

Acal BFi

NanoAmor

Transmart

Hill Technical Sales

Mag Inc.

SS Electronics

Catech

TI-Electronic

GAOTUNE

Shinhom

MH&amp;W International Corp.

SUNBOW

Pouleroi

**Key Questions Answered:**

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

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