

# Global Nanocrystalline Powder Core Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G988CE8B49BFEN.html>

Date: April 2026

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: G988CE8B49BFEN

## Abstracts

According to our (Global Info Research) latest study, the global Nanocrystalline Powder Core market size was valued at US\$ 121 million in 2025 and is forecast to a readjusted size of US\$ 204 million by 2032 with a CAGR of 7.7% during review period.

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

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

Global Nanocrystalline Powder Core 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 Nanocrystalline Powder Core 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 Nanocrystalline Powder Core

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 Nanocrystalline Powder Core 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 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.

### **Market Segmentation**

Nanocrystalline Powder Core 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

Atomized Nanocrystalline Powder

Ball-milled Powder

Water-atomized Powder

## Market segment by Preparation Process

Mechanical Alloying Method

Rapid Quenching Method

Chemical Method

## Market segment by Chemical Composition

Fe-Si-B-Nb-Cu System

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

Others

## Market segment by Application

Electronic Power

Communications

New Energy

Others

## Major players covered

Acal BFi

NanoAmor

Transmart

Hill Technical Sales

Mag Inc.

SS Electronics

Catech

TI-Electronic

GAOTUNE

Shinhom

MH&W International Corp.

SUNBOW

Pourleroi

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 Nanocrystalline Powder Core product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nanocrystalline Powder Core, with price,

sales quantity, revenue, and global market share of Nanocrystalline Powder Core from 2021 to 2026.

Chapter 3, the Nanocrystalline Powder Core competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nanocrystalline Powder Core 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 Nanocrystalline Powder Core 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 Nanocrystalline Powder Core.

Chapter 14 and 15, to describe Nanocrystalline Powder Core sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Nanocrystalline Powder Core Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Atomized Nanocrystalline Powder

1.3.3 Ball-milled Powder

1.3.4 Water-atomized Powder

1.4 Market Analysis by Preparation Process

1.4.1 Overview: Global Nanocrystalline Powder Core Consumption Value by Preparation Process: 2021 Versus 2025 Versus 2032

1.4.2 Mechanical Alloying Method

1.4.3 Rapid Quenching Method

1.4.4 Chemical Method

1.5 Market Analysis by Chemical Composition

1.5.1 Overview: Global Nanocrystalline Powder Core Consumption Value by Chemical Composition: 2021 Versus 2025 Versus 2032

1.5.2 Fe-Si-B-Nb-Cu System

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

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Nanocrystalline Powder Core Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Electronic Power

1.6.3 Communications

1.6.4 New Energy

1.6.5 Others

1.7 Global Nanocrystalline Powder Core Market Size & Forecast

1.7.1 Global Nanocrystalline Powder Core Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Nanocrystalline Powder Core Sales Quantity (2021-2032)

1.7.3 Global Nanocrystalline Powder Core Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Acal BFi

- 2.1.1 Acal BFi Details
- 2.1.2 Acal BFi Major Business
- 2.1.3 Acal BFi Nanocrystalline Powder Core Product and Services
- 2.1.4 Acal BFi Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Acal BFi Recent Developments/Updates
- 2.2 NanoAmor
  - 2.2.1 NanoAmor Details
  - 2.2.2 NanoAmor Major Business
  - 2.2.3 NanoAmor Nanocrystalline Powder Core Product and Services
  - 2.2.4 NanoAmor Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 NanoAmor Recent Developments/Updates
- 2.3 Transmart
  - 2.3.1 Transmart Details
  - 2.3.2 Transmart Major Business
  - 2.3.3 Transmart Nanocrystalline Powder Core Product and Services
  - 2.3.4 Transmart Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Transmart Recent Developments/Updates
- 2.4 Hill Technical Sales
  - 2.4.1 Hill Technical Sales Details
  - 2.4.2 Hill Technical Sales Major Business
  - 2.4.3 Hill Technical Sales Nanocrystalline Powder Core Product and Services
  - 2.4.4 Hill Technical Sales Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Hill Technical Sales Recent Developments/Updates
- 2.5 Mag Inc.
  - 2.5.1 Mag Inc. Details
  - 2.5.2 Mag Inc. Major Business
  - 2.5.3 Mag Inc. Nanocrystalline Powder Core Product and Services
  - 2.5.4 Mag Inc. Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Mag Inc. Recent Developments/Updates
- 2.6 SS Electronics
  - 2.6.1 SS Electronics Details
  - 2.6.2 SS Electronics Major Business
  - 2.6.3 SS Electronics Nanocrystalline Powder Core Product and Services
  - 2.6.4 SS Electronics Nanocrystalline Powder Core Sales Quantity, Average Price,

## Revenue, Gross Margin and Market Share (2021-2026)

### 2.6.5 SS Electronics Recent Developments/Updates

## 2.7 Catech

### 2.7.1 Catech Details

### 2.7.2 Catech Major Business

### 2.7.3 Catech Nanocrystalline Powder Core Product and Services

### 2.7.4 Catech Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.7.5 Catech Recent Developments/Updates

## 2.8 TI-Electronic

### 2.8.1 TI-Electronic Details

### 2.8.2 TI-Electronic Major Business

### 2.8.3 TI-Electronic Nanocrystalline Powder Core Product and Services

### 2.8.4 TI-Electronic Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.8.5 TI-Electronic Recent Developments/Updates

## 2.9 GAOTUNE

### 2.9.1 GAOTUNE Details

### 2.9.2 GAOTUNE Major Business

### 2.9.3 GAOTUNE Nanocrystalline Powder Core Product and Services

### 2.9.4 GAOTUNE Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.9.5 GAOTUNE Recent Developments/Updates

## 2.10 Shinhom

### 2.10.1 Shinhom Details

### 2.10.2 Shinhom Major Business

### 2.10.3 Shinhom Nanocrystalline Powder Core Product and Services

### 2.10.4 Shinhom Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.10.5 Shinhom Recent Developments/Updates

## 2.11 MH&W International Corp.

### 2.11.1 MH&W International Corp. Details

### 2.11.2 MH&W International Corp. Major Business

### 2.11.3 MH&W International Corp. Nanocrystalline Powder Core Product and Services

### 2.11.4 MH&W International Corp. Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.11.5 MH&W International Corp. Recent Developments/Updates

## 2.12 SUNBOW

### 2.12.1 SUNBOW Details

- 2.12.2 SUNBOW Major Business
- 2.12.3 SUNBOW Nanocrystalline Powder Core Product and Services
- 2.12.4 SUNBOW Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 SUNBOW Recent Developments/Updates
- 2.13 Poulrooi
  - 2.13.1 Poulrooi Details
  - 2.13.2 Poulrooi Major Business
  - 2.13.3 Poulrooi Nanocrystalline Powder Core Product and Services
  - 2.13.4 Poulrooi Nanocrystalline Powder Core Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Poulrooi Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: NANOCRYSTALLINE POWDER CORE BY MANUFACTURER**

- 3.1 Global Nanocrystalline Powder Core Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Nanocrystalline Powder Core Revenue by Manufacturer (2021-2026)
- 3.3 Global Nanocrystalline Powder Core Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Nanocrystalline Powder Core by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Nanocrystalline Powder Core Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Nanocrystalline Powder Core Manufacturer Market Share in 2025
- 3.5 Nanocrystalline Powder Core Market: Overall Company Footprint Analysis
  - 3.5.1 Nanocrystalline Powder Core Market: Region Footprint
  - 3.5.2 Nanocrystalline Powder Core Market: Company Product Type Footprint
  - 3.5.3 Nanocrystalline Powder Core Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Nanocrystalline Powder Core Market Size by Region
  - 4.1.1 Global Nanocrystalline Powder Core Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Nanocrystalline Powder Core Consumption Value by Region (2021-2032)
  - 4.1.3 Global Nanocrystalline Powder Core Average Price by Region (2021-2032)
- 4.2 North America Nanocrystalline Powder Core Consumption Value (2021-2032)
- 4.3 Europe Nanocrystalline Powder Core Consumption Value (2021-2032)

4.4 Asia-Pacific Nanocrystalline Powder Core Consumption Value (2021-2032)

4.5 South America Nanocrystalline Powder Core Consumption Value (2021-2032)

4.6 Middle East & Africa Nanocrystalline Powder Core Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Nanocrystalline Powder Core Sales Quantity by Type (2021-2032)

5.2 Global Nanocrystalline Powder Core Consumption Value by Type (2021-2032)

5.3 Global Nanocrystalline Powder Core Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Nanocrystalline Powder Core Sales Quantity by Application (2021-2032)

6.2 Global Nanocrystalline Powder Core Consumption Value by Application  
(2021-2032)

6.3 Global Nanocrystalline Powder Core Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Nanocrystalline Powder Core Sales Quantity by Type (2021-2032)

7.2 North America Nanocrystalline Powder Core Sales Quantity by Application  
(2021-2032)

7.3 North America Nanocrystalline Powder Core Market Size by Country

7.3.1 North America Nanocrystalline Powder Core Sales Quantity by Country  
(2021-2032)

7.3.2 North America Nanocrystalline Powder Core Consumption Value by Country  
(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Nanocrystalline Powder Core Sales Quantity by Type (2021-2032)

8.2 Europe Nanocrystalline Powder Core Sales Quantity by Application (2021-2032)

8.3 Europe Nanocrystalline Powder Core Market Size by Country

8.3.1 Europe Nanocrystalline Powder Core Sales Quantity by Country (2021-2032)

8.3.2 Europe Nanocrystalline Powder Core Consumption Value by Country  
(2021-2032)

- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Nanocrystalline Powder Core Market Size by Region
  - 9.3.1 Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Region (2021-2032)
  - 9.3.2 Asia-Pacific Nanocrystalline Powder Core Consumption Value by Region (2021-2032)
  - 9.3.3 China Market Size and Forecast (2021-2032)
  - 9.3.4 Japan Market Size and Forecast (2021-2032)
  - 9.3.5 South Korea Market Size and Forecast (2021-2032)
  - 9.3.6 India Market Size and Forecast (2021-2032)
  - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
  - 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America Nanocrystalline Powder Core Sales Quantity by Type (2021-2032)
- 10.2 South America Nanocrystalline Powder Core Sales Quantity by Application (2021-2032)
- 10.3 South America Nanocrystalline Powder Core Market Size by Country
  - 10.3.1 South America Nanocrystalline Powder Core Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Nanocrystalline Powder Core Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Nanocrystalline Powder Core Market Size by Country

11.3.1 Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Nanocrystalline Powder Core Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Nanocrystalline Powder Core Market Drivers

12.2 Nanocrystalline Powder Core Market Restraints

12.3 Nanocrystalline Powder Core Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Nanocrystalline Powder Core and Key Manufacturers

13.2 Manufacturing Costs Percentage of Nanocrystalline Powder Core

13.3 Nanocrystalline Powder Core Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Nanocrystalline Powder Core Typical Distributors

14.3 Nanocrystalline Powder Core Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Nanocrystalline Powder Core Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Nanocrystalline Powder Core Consumption Value by Preparation Process, (USD Million), 2021 & 2025 & 2032

Table 3. Global Nanocrystalline Powder Core Consumption Value by Chemical Composition, (USD Million), 2021 & 2025 & 2032

Table 4. Global Nanocrystalline Powder Core Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Acal BFi Basic Information, Manufacturing Base and Competitors

Table 6. Acal BFi Major Business

Table 7. Acal BFi Nanocrystalline Powder Core Product and Services

Table 8. Acal BFi Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Acal BFi Recent Developments/Updates

Table 10. NanoAmor Basic Information, Manufacturing Base and Competitors

Table 11. NanoAmor Major Business

Table 12. NanoAmor Nanocrystalline Powder Core Product and Services

Table 13. NanoAmor Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. NanoAmor Recent Developments/Updates

Table 15. Transmart Basic Information, Manufacturing Base and Competitors

Table 16. Transmart Major Business

Table 17. Transmart Nanocrystalline Powder Core Product and Services

Table 18. Transmart Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Transmart Recent Developments/Updates

Table 20. Hill Technical Sales Basic Information, Manufacturing Base and Competitors

Table 21. Hill Technical Sales Major Business

Table 22. Hill Technical Sales Nanocrystalline Powder Core Product and Services

Table 23. Hill Technical Sales Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Hill Technical Sales Recent Developments/Updates

Table 25. Mag Inc. Basic Information, Manufacturing Base and Competitors

Table 26. Mag Inc. Major Business

- Table 27. Mag Inc. Nanocrystalline Powder Core Product and Services
- Table 28. Mag Inc. Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Mag Inc. Recent Developments/Updates
- Table 30. SS Electronics Basic Information, Manufacturing Base and Competitors
- Table 31. SS Electronics Major Business
- Table 32. SS Electronics Nanocrystalline Powder Core Product and Services
- Table 33. SS Electronics Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. SS Electronics Recent Developments/Updates
- Table 35. Catech Basic Information, Manufacturing Base and Competitors
- Table 36. Catech Major Business
- Table 37. Catech Nanocrystalline Powder Core Product and Services
- Table 38. Catech Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Catech Recent Developments/Updates
- Table 40. TI-Electronic Basic Information, Manufacturing Base and Competitors
- Table 41. TI-Electronic Major Business
- Table 42. TI-Electronic Nanocrystalline Powder Core Product and Services
- Table 43. TI-Electronic Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. TI-Electronic Recent Developments/Updates
- Table 45. GAOTUNE Basic Information, Manufacturing Base and Competitors
- Table 46. GAOTUNE Major Business
- Table 47. GAOTUNE Nanocrystalline Powder Core Product and Services
- Table 48. GAOTUNE Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. GAOTUNE Recent Developments/Updates
- Table 50. Shinhom Basic Information, Manufacturing Base and Competitors
- Table 51. Shinhom Major Business
- Table 52. Shinhom Nanocrystalline Powder Core Product and Services
- Table 53. Shinhom Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. Shinhom Recent Developments/Updates
- Table 55. MH&W International Corp. Basic Information, Manufacturing Base and Competitors
- Table 56. MH&W International Corp. Major Business
- Table 57. MH&W International Corp. Nanocrystalline Powder Core Product and Services

Table 58. MH&W International Corp. Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. MH&W International Corp. Recent Developments/Updates

Table 60. SUNBOW Basic Information, Manufacturing Base and Competitors

Table 61. SUNBOW Major Business

Table 62. SUNBOW Nanocrystalline Powder Core Product and Services

Table 63. SUNBOW Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. SUNBOW Recent Developments/Updates

Table 65. Pourleroi Basic Information, Manufacturing Base and Competitors

Table 66. Pourleroi Major Business

Table 67. Pourleroi Nanocrystalline Powder Core Product and Services

Table 68. Pourleroi Nanocrystalline Powder Core Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Pourleroi Recent Developments/Updates

Table 70. Global Nanocrystalline Powder Core Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 71. Global Nanocrystalline Powder Core Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global Nanocrystalline Powder Core Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 73. Market Position of Manufacturers in Nanocrystalline Powder Core, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 74. Head Office and Nanocrystalline Powder Core Production Site of Key Manufacturer

Table 75. Nanocrystalline Powder Core Market: Company Product Type Footprint

Table 76. Nanocrystalline Powder Core Market: Company Product Application Footprint

Table 77. Nanocrystalline Powder Core New Market Entrants and Barriers to Market Entry

Table 78. Nanocrystalline Powder Core Mergers, Acquisition, Agreements, and Collaborations

Table 79. Global Nanocrystalline Powder Core Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 80. Global Nanocrystalline Powder Core Sales Quantity by Region (2021-2026) & (Tons)

Table 81. Global Nanocrystalline Powder Core Sales Quantity by Region (2027-2032) & (Tons)

Table 82. Global Nanocrystalline Powder Core Consumption Value by Region

(2021-2026) & (USD Million)

Table 83. Global Nanocrystalline Powder Core Consumption Value by Region

(2027-2032) & (USD Million)

Table 84. Global Nanocrystalline Powder Core Average Price by Region (2021-2026) & (US\$/Ton)

Table 85. Global Nanocrystalline Powder Core Average Price by Region (2027-2032) & (US\$/Ton)

Table 86. Global Nanocrystalline Powder Core Sales Quantity by Type (2021-2026) & (Tons)

Table 87. Global Nanocrystalline Powder Core Sales Quantity by Type (2027-2032) & (Tons)

Table 88. Global Nanocrystalline Powder Core Consumption Value by Type (2021-2026) & (USD Million)

Table 89. Global Nanocrystalline Powder Core Consumption Value by Type (2027-2032) & (USD Million)

Table 90. Global Nanocrystalline Powder Core Average Price by Type (2021-2026) & (US\$/Ton)

Table 91. Global Nanocrystalline Powder Core Average Price by Type (2027-2032) & (US\$/Ton)

Table 92. Global Nanocrystalline Powder Core Sales Quantity by Application (2021-2026) & (Tons)

Table 93. Global Nanocrystalline Powder Core Sales Quantity by Application (2027-2032) & (Tons)

Table 94. Global Nanocrystalline Powder Core Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Global Nanocrystalline Powder Core Consumption Value by Application (2027-2032) & (USD Million)

Table 96. Global Nanocrystalline Powder Core Average Price by Application (2021-2026) & (US\$/Ton)

Table 97. Global Nanocrystalline Powder Core Average Price by Application (2027-2032) & (US\$/Ton)

Table 98. North America Nanocrystalline Powder Core Sales Quantity by Type (2021-2026) & (Tons)

Table 99. North America Nanocrystalline Powder Core Sales Quantity by Type (2027-2032) & (Tons)

Table 100. North America Nanocrystalline Powder Core Sales Quantity by Application (2021-2026) & (Tons)

Table 101. North America Nanocrystalline Powder Core Sales Quantity by Application (2027-2032) & (Tons)

Table 102. North America Nanocrystalline Powder Core Sales Quantity by Country (2021-2026) & (Tons)

Table 103. North America Nanocrystalline Powder Core Sales Quantity by Country (2027-2032) & (Tons)

Table 104. North America Nanocrystalline Powder Core Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America Nanocrystalline Powder Core Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe Nanocrystalline Powder Core Sales Quantity by Type (2021-2026) & (Tons)

Table 107. Europe Nanocrystalline Powder Core Sales Quantity by Type (2027-2032) & (Tons)

Table 108. Europe Nanocrystalline Powder Core Sales Quantity by Application (2021-2026) & (Tons)

Table 109. Europe Nanocrystalline Powder Core Sales Quantity by Application (2027-2032) & (Tons)

Table 110. Europe Nanocrystalline Powder Core Sales Quantity by Country (2021-2026) & (Tons)

Table 111. Europe Nanocrystalline Powder Core Sales Quantity by Country (2027-2032) & (Tons)

Table 112. Europe Nanocrystalline Powder Core Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Europe Nanocrystalline Powder Core Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Type (2021-2026) & (Tons)

Table 115. Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Type (2027-2032) & (Tons)

Table 116. Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Application (2021-2026) & (Tons)

Table 117. Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Application (2027-2032) & (Tons)

Table 118. Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Region (2021-2026) & (Tons)

Table 119. Asia-Pacific Nanocrystalline Powder Core Sales Quantity by Region (2027-2032) & (Tons)

Table 120. Asia-Pacific Nanocrystalline Powder Core Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific Nanocrystalline Powder Core Consumption Value by Region

(2027-2032) & (USD Million)

Table 122. South America Nanocrystalline Powder Core Sales Quantity by Type (2021-2026) & (Tons)

Table 123. South America Nanocrystalline Powder Core Sales Quantity by Type (2027-2032) & (Tons)

Table 124. South America Nanocrystalline Powder Core Sales Quantity by Application (2021-2026) & (Tons)

Table 125. South America Nanocrystalline Powder Core Sales Quantity by Application (2027-2032) & (Tons)

Table 126. South America Nanocrystalline Powder Core Sales Quantity by Country (2021-2026) & (Tons)

Table 127. South America Nanocrystalline Powder Core Sales Quantity by Country (2027-2032) & (Tons)

Table 128. South America Nanocrystalline Powder Core Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America Nanocrystalline Powder Core Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Type (2021-2026) & (Tons)

Table 131. Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Type (2027-2032) & (Tons)

Table 132. Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Application (2021-2026) & (Tons)

Table 133. Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Application (2027-2032) & (Tons)

Table 134. Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Country (2021-2026) & (Tons)

Table 135. Middle East & Africa Nanocrystalline Powder Core Sales Quantity by Country (2027-2032) & (Tons)

Table 136. Middle East & Africa Nanocrystalline Powder Core Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa Nanocrystalline Powder Core Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Nanocrystalline Powder Core Raw Material

Table 139. Key Manufacturers of Nanocrystalline Powder Core Raw Materials

Table 140. Nanocrystalline Powder Core Typical Distributors

Table 141. Nanocrystalline Powder Core Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Nanocrystalline Powder Core Picture

Figure 2. Global Nanocrystalline Powder Core Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Nanocrystalline Powder Core Revenue Market Share by Type in 2025

Figure 4. Atomized Nanocrystalline Powder Examples

Figure 5. Ball-milled Powder Examples

Figure 6. Water-atomized Powder Examples

Figure 7. Global Nanocrystalline Powder Core Revenue by Preparation Process, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Nanocrystalline Powder Core Revenue Market Share by Preparation Process in 2025

Figure 9. Mechanical Alloying Method Examples

Figure 10. Rapid Quenching Method Examples

Figure 11. Chemical Method Examples

Figure 12. Global Nanocrystalline Powder Core Revenue by Chemical Composition, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Nanocrystalline Powder Core Revenue Market Share by Chemical Composition in 2025

Figure 14. Fe-Si-B-Nb-Cu System Examples

Figure 15. Fe-(Zr/Hf/Nb)-B System Examples

Figure 16. Others Examples

Figure 17. Global Nanocrystalline Powder Core Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Nanocrystalline Powder Core Revenue Market Share by Application in 2025

Figure 19. Electronic Power Examples

Figure 20. Communications Examples

Figure 21. New Energy Examples

Figure 22. Others Examples

Figure 23. Global Nanocrystalline Powder Core Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 24. Global Nanocrystalline Powder Core Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 25. Global Nanocrystalline Powder Core Sales Quantity (2021-2032) & (Tons)

Figure 26. Global Nanocrystalline Powder Core Price (2021-2032) & (US\$/Ton)

Figure 27. Global Nanocrystalline Powder Core Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global Nanocrystalline Powder Core Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Nanocrystalline Powder Core by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Nanocrystalline Powder Core Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Nanocrystalline Powder Core Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Nanocrystalline Powder Core Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Nanocrystalline Powder Core Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Nanocrystalline Powder Core Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Nanocrystalline Powder Core Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Nanocrystalline Powder Core Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. Global Nanocrystalline Powder Core Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Nanocrystalline Powder Core Revenue Market Share by Application (2021-2032)

Figure 44. Global Nanocrystalline Powder Core Average Price by Application (2021-2032) & (US\$/Ton)

Figure 45. North America Nanocrystalline Powder Core Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America Nanocrystalline Powder Core Sales Quantity Market Share by

Application (2021-2032)

Figure 47. North America Nanocrystalline Powder Core Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Nanocrystalline Powder Core Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Nanocrystalline Powder Core Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe Nanocrystalline Powder Core Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Nanocrystalline Powder Core Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Nanocrystalline Powder Core Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 57. France Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Nanocrystalline Powder Core Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific Nanocrystalline Powder Core Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Nanocrystalline Powder Core Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Nanocrystalline Powder Core Consumption Value Market Share by Region (2021-2032)

Figure 65. China Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 68. India Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Nanocrystalline Powder Core Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Nanocrystalline Powder Core Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Nanocrystalline Powder Core Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Nanocrystalline Powder Core Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Nanocrystalline Powder Core Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Nanocrystalline Powder Core Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Nanocrystalline Powder Core Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Nanocrystalline Powder Core Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Nanocrystalline Powder Core Consumption Value (2021-2032) & (USD Million)

Figure 85. Nanocrystalline Powder Core Market Drivers

Figure 86. Nanocrystalline Powder Core Market Restraints

Figure 87. Nanocrystalline Powder Core Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Nanocrystalline Powder Core in 2025

Figure 90. Manufacturing Process Analysis of Nanocrystalline Powder Core

Figure 91. Nanocrystalline Powder Core Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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