

# Global Amorphous and Nanocrystalline Materials 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 Amorphous and Nanocrystalline Materials market size was valued at US\$ 1001 million in 2025 and is forecast to a readjusted size of US\$ 1790 million by 2032 with a CAGR of 8.7% during review period.

In 2025, global Amorphous and Nanocrystalline Materials production reached approximately 579 k tons, with an average global market price of around US\$1,680 per ton. Amorphous Material is a substance in which the atoms, molecules, or ions have a random and nonrepetitive three-dimensional arrangement. Nanocrystalline Material is a polycrystalline material with a crystallite size of only a few nanometers. These materials fill the gap between amorphous materials without any long range order and conventional coarse-grained materials.

The global market for amorphous and nanocrystalline materials is undergoing a profound structural transition, moving from traditional power distribution into high-end power electronics and new energy sectors. As international energy efficiency standards and carbon neutrality mandates become increasingly stringent, amorphous alloys maintain steady growth in distribution transformers due to their exceptional ultra-low no-load loss characteristics. Simultaneously, nanocrystalline materials are rapidly emerging as pivotal solutions for on-board chargers, high-voltage DC-DC converters, and high-frequency filtering components, owing to their superior permeability, high saturation induction, and excellent frequency response. Development trends are increasingly focused on ultra-thinning and performance enhancement to further reduce high-frequency losses and boost power density, aligning with the integration requirements for miniaturized power electronic equipment. Key opportunities are driven by the global

proliferation of 800V high-voltage fast-charging architectures, energy efficiency upgrades in data centers fueled by generative artificial intelligence, and government policies prioritizing the security of critical advanced material supply chains. The synergy between these advanced magnetic materials and wide-bandgap semiconductors is fostering a new era of ultra-efficient power conversion modules. However, significant barriers persist within the industry, primarily involving the immense difficulty in precisely controlling extreme cooling conditions during the manufacturing process. The inherent brittleness of these materials adds substantial complexity to post-processing and mechanical assembly, requiring specialized handling and sophisticated winding techniques. Furthermore, the global trade volatility of core alloying elements in the supply chain, combined with a higher total manufacturing cost compared to traditional silicon steel, remains a major bottleneck restricting comprehensive adoption across large-scale mid-to-low-end market segments. The industry also faces challenges in achieving uniform material consistency during high-speed, continuous mass production, which demands sustained capital investment in precision metallurgical control systems and interdisciplinary material science expertise to maintain competitive yields in a demanding global landscape of technological advancement and cost optimization.

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

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

Global Amorphous and Nanocrystalline Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Amorphous and Nanocrystalline Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Amorphous and Nanocrystalline Materials
- 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 Amorphous and Nanocrystalline Materials 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 Proterial, Ltd., Advanced Technology and Materials, VACUUMSCHMELZE, Qingdao Yunlu Advanced Materials Technology, China Amorphous Technology, Henan Zhongyue, Foshan Huaxin Microcrystalline Metal, Londerful New Material, Junhua Technology, Anhui Smagnet Materials Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Amorphous and Nanocrystalline Materials 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

Amorphous Materials

Nanocrystalline Materials

### Market segment by Material

Fe-based

Co-based

Others

### Market segment by Thickness

Thickness <25µm

Thickness >25µm

### Market segment by Application

Energy

Electricity

Consumer Electronics

Aerospace

Automotive and Transportation

Others

### Major players covered

Proterial, Ltd.

Advanced Technology and Materials

VACUUMSCHMELZE

Qingdao Yunlu Advanced Materials Technology

China Amorphous Technology

Henan Zhongyue

Foshan Huaxin Microcrystalline Metal

Londerful New Material

Junhua Technology

Anhui Smagnet Materials Technology

Bomatec

MAGNETEC

Dayou Technology

JoinChina Advanced Materials

King Magnetics

Wuxi Lanyou

MSTATOR

Vikarsh Nano

Shouke Electronic

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 Amorphous and Nanocrystalline Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Amorphous and Nanocrystalline Materials, with price, sales quantity, revenue, and global market share of Amorphous and Nanocrystalline Materials from 2021 to 2026.

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

Chapter 4, the Amorphous and Nanocrystalline Materials 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 Amorphous and Nanocrystalline Materials 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 Amorphous and Nanocrystalline Materials.

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

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