

Global Diamond-reinforced Aluminum Matrix Composite Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diamond-reinforced Aluminum Matrix Composite market size is expected to reach \$ 177 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

The global production of Diamond-reinforced Aluminum Matrix Composites reached 1,059,600 pieces in 2025, with an average selling price of USD 120 per piece. The global annual production capacity for diamond-reinforced aluminum matrix composites is approximately 1.5 million pieces, with a gross margin of about 31.2%. Diamond-reinforced aluminum matrix composites are a new type of thermal management material, composed of high-thermal-conductivity diamond particles (natural or synthetic) as the reinforcement phase and aluminum metal or its alloys as the matrix, fabricated through specific composite processes. Their core advantage lies in combining the extremely high thermal conductivity of diamond with the lightweight nature, ease of processing, and low cost of the aluminum matrix, thereby obtaining a composite material that possesses both high thermal conductivity and good mechanical properties. The preparation processes primarily include powder metallurgy, pressure infiltration, spark plasma sintering, and other methods, by which the thermal conductivity and thermal expansion performance are optimized through controlling the particle size, volume fraction, and interfacial bonding state of the diamond particles. This material is mainly applied in fields such as electronic packaging, heat dissipation substrates for high-power semiconductor devices, and aerospace thermal control systems, where extremely high heat dissipation and thermal stability are required, making it one of the key materials for addressing the heat dissipation challenges of high-heat-flux electronic devices. The upstream supply chain of diamond-reinforced aluminum matrix composites includes raw materials such as diamond material forms, aluminum and aluminum alloy

materials, etc.; the midstream consists of manufacturers of diamond-reinforced aluminum matrix composites; and the downstream primary industries are electronics, aerospace, and automotive.

The market for diamond-reinforced aluminum matrix composites is currently in a phase of rapid growth, driven primarily by the continuous increase in power density of electronic devices, the pursuit of ultimate heat dissipation efficiency in 5G communications and high-performance computing, and the urgent demand for lightweight yet highly thermally conductive materials in aerospace and other sectors. As the integration level of high-power semiconductors, lasers, radar, and other devices continues to rise, conventional thermal management materials are approaching their limits in terms of thermal conductivity and thermal matching performance, which has accelerated the transition of diamond-reinforced aluminum matrix composites?with their superior comprehensive thermophysical properties?from laboratory research to engineering applications. Driven by market forces, material preparation technologies are becoming increasingly mature and product consistency is steadily improving, with application scenarios gradually expanding from high-end aerospace and military fields to commercial markets such as high-performance servers and power modules in new energy vehicles. At the same time, upstream and downstream industry collaboration is growing closer, the raw material supply system is continuously improving, and the overall industry is transitioning from the technology verification stage to the scale-up application stage, with market awareness and acceptance rising steadily.

This report studies the global Diamond-reinforced Aluminum Matrix Composite production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diamond-reinforced Aluminum Matrix Composite 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 Diamond-reinforced Aluminum Matrix Composite that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diamond-reinforced Aluminum Matrix Composite total production and demand, 2021-2032, (K Pcs)

Global Diamond-reinforced Aluminum Matrix Composite total production value, 2021-2032, (USD Million)

Global Diamond-reinforced Aluminum Matrix Composite production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Diamond-reinforced Aluminum Matrix Composite consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Diamond-reinforced Aluminum Matrix Composite domestic production, consumption, key domestic manufacturers and share

Global Diamond-reinforced Aluminum Matrix Composite production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Diamond-reinforced Aluminum Matrix Composite production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Diamond-reinforced Aluminum Matrix Composite production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Diamond-reinforced Aluminum Matrix Composite 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 Denka, Nano Materials International Corporation, THERMAL, Harbin Yisheng New Materials Technology, Grinm Metal Composites (Beijing) Technology, Guoji Diamond, Heatsink New Material Technology, Changzhou Tiger Electronic Technology, Xi'an Chuangzheng New Materials, Changsha Saneway Electronic Materials, 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 Diamond-reinforced Aluminum Matrix Composite market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Diamond-reinforced Aluminum Matrix Composite Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond-reinforced Aluminum Matrix Composite Market, Segmentation by Type:

Powder Metallurgy Diamond Aluminum

Melt Infiltration Diamond Aluminum

Spark Plasma Sintering (SPS) Diamond Aluminum

Global Diamond-reinforced Aluminum Matrix Composite Market, Segmentation by Reinforcement Morphology:

Particle-Reinforced

Fiber/Whisker-Reinforced

Laminated/Hybrid-Reinforced

Global Diamond-reinforced Aluminum Matrix Composite Market, Segmentation by Thermal Conductivity Grade:

Thermal Conductivity 400 W/(m?k)

Thermal Conductivity 450 W/(m·K)

Thermal Conductivity >500 W/(m·K)

Global Diamond-reinforced Aluminum Matrix Composite Market, Segmentation by Application:

Electronics

Aerospace

Automotive

Energy

Medical

Companies Profiled:

Denka

Nano Materials International Corporation

THERMAL

Harbin Yisheng New Materials Technology

Grinm Metal Composites (Beijing) Technology

Guoji Diamond

Heatsink New Material Technology

Changzhou Tiger Electronic Technology

Xi'an Chuangzheng New Materials

Changsha Saneway Electronic Materials

ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY

Hunan Core Synergy Technology

Jiangsu Jingkun Technology

Nanjing Realway New Material Technology

Key Questions Answered:

1. How big is the global Diamond-reinforced Aluminum Matrix Composite market?
2. What is the demand of the global Diamond-reinforced Aluminum Matrix Composite market?
3. What is the year over year growth of the global Diamond-reinforced Aluminum Matrix Composite market?
4. What is the production and production value of the global Diamond-reinforced Aluminum Matrix Composite market?
5. Who are the key producers in the global Diamond-reinforced Aluminum Matrix Composite market?
6. What are the growth factors driving the market demand?

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