

Global Diamond/Al MMC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diamond/Al MMC market size is expected to reach \$ 167 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of diamond/aluminum-matrix composites is projected to reach 1.0596 million pieces, with an average selling price of \$120 per piece. The global annual production capacity for diamond/aluminum-matrix composites stands at approximately 1.5 million pieces, with a gross profit margin of about 31.2%. Diamond/aluminum-matrix composites are high-performance multiphase materials fabricated through processes such as powder metallurgy, pressure infiltration, spark plasma sintering, or stir casting. These composites utilize highly thermally conductive and ultra-hard diamond (typically in the form of particles, fibers, or polycrystalline structures) as the reinforcing phase, and metallic aluminum or aluminum alloys as the continuous matrix phase. The core design principle lies in fully leveraging the synergistic advantages of diamond—specifically its extremely high intrinsic thermal conductivity (reaching up to 2000 W/mK)—and aluminum, known for its lightweight nature, excellent formability, and relatively superior thermal conductivity. By constructing a continuous thermal conduction network at the microscopic scale, the composite material achieves overall thermal conductivity far exceeding that of pure aluminum (typically ranging from 400 to 700 W/mK). Simultaneously, by precisely controlling the volume fraction and distribution of the diamond phase, the material's coefficient of thermal expansion is accurately matched to levels compatible with semiconductor chips (such as silicon, silicon carbide, and gallium nitride). Consequently, this material is widely deployed in high-end thermal management applications—including substrates for high-power integrated circuit packaging, heat sinks for IGBT modules, heat dissipators for laser diodes, and avionics equipment—serving as a critical material for resolving the thermal dissipation bottlenecks inherent in modern

high-power-density electronic devices. The upstream supply chain for diamond/aluminum-matrix composites comprises raw materials such as various forms of diamond and aluminum/aluminum alloy materials. The midstream segment consists of the manufacturers of diamond/aluminum-matrix composites, while the downstream market is primarily concentrated in industries such as semiconductors, electronics, and aerospace.

The market for diamond/aluminum matrix composites is currently in a critical incubation phase, transitioning from technical validation to large-scale application. Driven by the urgent demand for high-efficiency thermal management solutions across sectors such as 5G/6G communications, new energy vehicles, AI computing chips, aerospace electronics, and high-power lasers, this material distinguished by its exceptional thermal conductivity and tunable coefficient of thermal expansion has gradually gained recognition within the fields of high-end packaging and thermal dissipation. Currently, the market is dominated by a select group of advanced materials enterprises possessing core interface control technologies and stable fabrication processes; meanwhile, domestic and international research institutions continue to drive process optimization and cost reduction efforts. Nevertheless, factors such as the high cost of raw diamond materials, the inherent difficulty in controlling the quality of interfacial bonding within the composites, and the fact that mass production processes have yet to fully mature remain the primary bottlenecks constraining the material's widespread commercial adoption. Overall, although the current market size remains relatively limited, the material is demonstrating robust growth potential propelled by strong demand from high-end applications and is expected to progressively expand its market share within the next-generation electronics packaging and thermal management sectors.

This report studies the global Diamond/Al MMC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diamond/Al MMC 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/Al MMC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diamond/Al MMC total production and demand, 2021-2032, (K Pcs)

Global Diamond/Al MMC total production value, 2021-2032, (USD Million)

Global Diamond/Al MMC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Diamond/Al MMC consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Diamond/Al MMC domestic production, consumption, key domestic manufacturers and share

Global Diamond/Al MMC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Diamond/Al MMC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Diamond/Al MMC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Diamond/Al MMC 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/Al MMC 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/Al MMC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond/Al MMC Market, Segmentation by Type:

Particulate-Reinforced

Fiber-Reinforced

Global Diamond/Al MMC Market, Segmentation by Matrix Alloy Composition:

Pure Aluminum Matrix

Aluminum Alloy Matrix

Global Diamond/Al MMC Market, Segmentation by Thermal Conductivity:

400-500 W/(m²K)

500-700 W/(m²K)

>700 W/(m²K)

Global Diamond/Al MMC Market, Segmentation by Application:

Semiconductors

Electronics

Aerospace

New Energy Vehicles

Robotics & Automation

Optical Communications

Others

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/Al MMC market?
2. What is the demand of the global Diamond/Al MMC market?
3. What is the year over year growth of the global Diamond/Al MMC market?
4. What is the production and production value of the global Diamond/Al MMC market?
5. Who are the key producers in the global Diamond/Al MMC market?
6. What are the growth factors driving the market demand?

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