

# Global Diamond/Al MMC Market Growth 2026-2032

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## Abstracts

The global Diamond/Al MMC market size is predicted to grow from US\$ 124 million in 2025 to US\$ 161 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Diamond/Al MMC Industry Forecast" looks at past sales and reviews total world Diamond/Al MMC sales in 2025, providing a comprehensive analysis by region and market sector of projected Diamond/Al MMC sales for 2026 through 2032. With Diamond/Al MMC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Diamond/Al MMC industry.

This Insight Report provides a comprehensive analysis of the global Diamond/Al MMC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Diamond/Al MMC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global Diamond/Al MMC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Diamond/Al MMC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Diamond/Al MMC.

This report presents a comprehensive overview, market shares, and growth opportunities of Diamond/Al MMC market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Particulate-Reinforced

Fiber-Reinforced

#### Segmentation by Matrix Alloy Composition:

Pure Aluminum Matrix

Aluminum Alloy Matrix

#### Segmentation by Thermal Conductivity:

400-500 W/(m?K)

500-700 W/(m?K)

?700 W/(m?K)

#### Segmentation by Application:

Semiconductors

Electronics

Aerospace

New Energy Vehicles

Robotics & Automation

Optical Communications

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Diamond/AI MMC market?

What factors are driving Diamond/AI MMC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Diamond/AI MMC market opportunities vary by end market size?

How does Diamond/AI MMC break out by Type, by Application?

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