

Global Diamond/Al MMC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G281A754FC8DEN.html>

Date: July 2026

Pages: 122

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

ID: G281A754FC8DEN

Abstracts

According to our (Global Info Research) latest study, the global Diamond/Al MMC market size was valued at US\$ 131 million in 2025 and is forecast to a readjusted size of US\$ 167 million by 2032 with a CAGR of 3.6% during review period.

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 is a detailed and comprehensive analysis for global Diamond/Al MMC 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 Diamond/AI MMC market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Diamond/AI MMC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Diamond/AI MMC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Diamond/AI MMC market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 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 Diamond/AI MMC

- 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 Diamond/AI MMC 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 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.

Market Segmentation

Diamond/Al MMC 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

Particulate-Reinforced

Fiber-Reinforced

Market segment by Matrix Alloy Composition

Pure Aluminum Matrix

Aluminum Alloy Matrix

Market segment by Thermal Conductivity

400-500 W/(m?K)

500-700 W/(m?K)

?700 W/(m?K)

Market segment by Application

Semiconductors

Electronics

Aerospace

New Energy Vehicles

Robotics & Automation

Optical Communications

Others

Major players covered

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

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 Diamond/AI MMC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Diamond/AI MMC, with price, sales quantity, revenue, and global market share of Diamond/AI MMC from 2021 to 2026.

Chapter 3, the Diamond/AI MMC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Diamond/AI MMC 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 Diamond/AI MMC 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 Diamond/AI MMC.

Chapter 14 and 15, to describe Diamond/AI MMC sales channel, distributors, customers, research findings and conclusion.

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