

Global Diamond-SiC Composite Material Market Growth 2026-2032

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Abstracts

The global Diamond-SiC Composite Material market size is predicted to grow from US\$ 27.39 million in 2025 to US\$ 237 million in 2032; it is expected to grow at a CAGR of 36.3% from 2026 to 2032.

In 2025, global sales volume of Diamond-SiC Composite Material was approximately 3.5 tons, with a global average selling price of about USD 8,000/kg. The gross margin of major manufacturers was generally around 35%-55%.

Diamond-SiC Composite Material is a high-thermal-conductivity composite material designed for thermal management in high-power chips and advanced packaging. It is mainly composed of a high-thermal-conductivity diamond phase and a silicon carbide ceramic matrix. The material combines the extremely high thermal conductivity of diamond with the high strength, high-temperature resistance, corrosion resistance and thermal stability of silicon carbide, enabling rapid heat conduction and spreading under high-heat-flux conditions while reducing localized hotspots and thermal stress concentration in devices. Compared with traditional copper, aluminum, tungsten-copper, molybdenum-copper and conventional ceramic thermal management materials, Diamond-SiC Composite Material offers stronger advantages in thermal conductivity, thermal expansion matching, dimensional stability and high-temperature reliability, making it particularly suitable for addressing the high heat generation, limited space and strict matching challenges in high-computing-power chips, high-power semiconductors and RF devices. In China, Huanghe Whirlwind has made certain technical progress in diamond-SiC composite material. Public information indicates that its related materials have achieved thermal conductivity of over 700 W/(m·K) and a coefficient of thermal expansion as low as 2.6 ppm/°C, providing a technical foundation for expansion into high-end semiconductor thermal management materials. However, in

terms of commercialization progress, the product still appears to be mainly at the R&D validation and industrialization promotion stage, with no clear evidence of large-scale mass production or stable commercial supply. It is expected to become a potential new growth area in high-end semiconductor materials.

The downstream applications of Diamond-SiC Composite Material mainly include AI and data centers, communication and RF, automotive electrification, power and energy, semiconductor lasers, aerospace and other high-end electronic equipment fields. Among these, AI and data centers represent the most promising growth area at present. As the power consumption of AI computing chips continues to rise, heat flux density in advanced packaging increases, and SiC/GaN power devices see accelerated adoption, traditional metal and conventional ceramic materials are facing greater pressure in terms of thermal conductivity, thermal expansion matching and packaging reliability. Diamond-SiC Composite Material is therefore expected to become an important development direction for high-end thermal management materials.

United States market for Diamond-SiC Composite Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Diamond-SiC Composite Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Diamond-SiC Composite Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Diamond-SiC Composite Material players cover Coherent, DIASEMI, Henan Shuhui New Materials, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Diamond-SiC Composite Material 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-SiC Composite Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Diamond-SiC Composite Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Diamond-SiC Composite Material 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-SiC Composite Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Diamond-SiC Composite Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Heat Sink

Thermal Substrate

Microchannel Cold Plate Component

Composite Package Housing

Segmentation by Thermal Conductivity Grade:

Medium-High Thermal Conductivity

High Thermal Conductivity

Ultra-High Thermal Conductivity

Segmentation by Application:

- AI and Data Center
- Communication and RF
- Automotive Electrification
- Power and Energy
- Semiconductor Laser
- Aerospace
- Other

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.

Coherent

DIASEMI

Henan Shuhui New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Diamond-SiC Composite Material market?

What factors are driving Diamond-SiC Composite Material market growth, globally and by region?

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

How do Diamond-SiC Composite Material market opportunities vary by end market size?

How does Diamond-SiC Composite Material break out by Type, by Application?

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