

Global Semiconductor-Grade CVD Diamond Heat Spreaders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor-Grade CVD Diamond Heat Spreaders market size is expected to reach \$ 216 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Semiconductor grade CVD diamond heat sinks are high-performance thermal management devices made with high-purity CVD diamond as the core material. They are used in the heat dissipation path of semiconductor chips or power devices, utilizing their extremely high thermal conductivity (typically 1000-2200 W/m²K) to rapidly conduct and diffuse the heat generated by the chip, thereby significantly reducing device junction temperature and improving power density and reliability.

The upstream of the industry chain mainly includes carbon source gases such as high-purity methane and hydrogen, substrate materials such as diamond seed crystals, silicon wafers, silicon carbide (SiC), and molybdenum wafers, as well as suppliers of microwave plasma chemical vapor deposition (MPCVD) equipment, vacuum equipment, metallization materials, and packaging auxiliary materials. The midstream consists of semiconductor-grade diamond heat sink manufacturers, who grow high thermal conductivity polycrystalline or single-crystal diamond films using CVD processes and then prepare diamond heat sinks, heat spreaders, and composite heat dissipation substrates through processes such as cutting, polishing, thinning, metallization, copper plating, and bonding encapsulation. The downstream mainly uses diamond in high-power-density electronic products such as AI server GPUs and ASIC chips, optical communication lasers, data center accelerator cards, 5G/6G communication base stations, and aerospace electronic equipment. Diamond's ultra-high thermal conductivity is used to solve the heat dissipation bottleneck of advanced semiconductor devices,

improving device power density, reliability, and lifespan.

In 2025, global sales of semiconductor grade CVD diamond heat sinks are projected to reach 200,000 pcs, with a production capacity of approximately 285,000 pcs. The average selling price is \$628 per pcs, and the average gross profit margin is 40%-50%.

Major countries worldwide have prioritized advanced thermal management materials and third-generation semiconductors. The US, Europe, and Japan continue to promote the development of GaN, SiC, and quantum technologies, driving demand for diamond thermal management materials. China, through its policies on new materials, advanced packaging, and third-generation semiconductors, supports the development of related industrial chains, accelerating the localization of electronic-grade CVD diamond materials. In recent years, several international companies have successively advanced 2-inch to 4-inch single-crystal diamond wafer industrialization projects, marking the industry's transition from R&D verification to large-scale application.

This report studies the global Semiconductor-Grade CVD Diamond Heat Spreaders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor-Grade CVD Diamond Heat Spreaders 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 Semiconductor-Grade CVD Diamond Heat Spreaders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor-Grade CVD Diamond Heat Spreaders total production and demand, 2021-2032, (K Pcs)

Global Semiconductor-Grade CVD Diamond Heat Spreaders total production value, 2021-2032, (USD Million)

Global Semiconductor-Grade CVD Diamond Heat Spreaders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Semiconductor-Grade CVD Diamond Heat Spreaders consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Semiconductor-Grade CVD Diamond Heat Spreaders domestic production, consumption, key domestic manufacturers and share

Global Semiconductor-Grade CVD Diamond Heat Spreaders production by

manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Semiconductor-Grade CVD Diamond Heat Spreaders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Semiconductor-Grade CVD Diamond Heat Spreaders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Semiconductor-Grade CVD Diamond Heat Spreaders 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 Element Six, Applied Diamond, Coherent, A.L.M.T. Corp., Leo Da Vinci Group, Appsilon Scientific, Diamond Materials, Huanghe Whirlwind, Liliang Diamond, Bozhi Jinzuan, 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 Semiconductor-Grade CVD Diamond Heat Spreaders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Semiconductor-Grade CVD Diamond Heat Spreaders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor-Grade CVD Diamond Heat Spreaders Market, Segmentation by Type:

2 Inches

3 Inches

4 Inches

Others

Global Semiconductor-Grade CVD Diamond Heat Spreaders Market, Segmentation by Thermal Conductivity:

1000-1500 W/m.K

1500-2000 W/m.K

Others

Global Semiconductor-Grade CVD Diamond Heat Spreaders Market, Segmentation by Material Structure:

Polycrystalline Diamond Heat Spreaders

Monocrystalline Diamond Heat Spreaders

Global Semiconductor-Grade CVD Diamond Heat Spreaders Market, Segmentation by Application:

Servers

Communications

Aerospace

Others

Companies Profiled:

Element Six

Applied Diamond

Coherent

A.L.M.T. Corp.

Leo Da Vinci Group

Appsilon Scientific

Diamond Materials

Huanghe Whirlwind

Liliang Diamond

Bozhi Jinzuan

Huahe Jidian

Sifangda

Huifeng Diamond

Key Questions Answered:

1. How big is the global Semiconductor-Grade CVD Diamond Heat Spreaders market?
2. What is the demand of the global Semiconductor-Grade CVD Diamond Heat Spreaders market?
3. What is the year over year growth of the global Semiconductor-Grade CVD Diamond Heat Spreaders market?
4. What is the production and production value of the global Semiconductor-Grade CVD Diamond Heat Spreaders market?
5. Who are the key producers in the global Semiconductor-Grade CVD Diamond Heat Spreaders market?
6. What are the growth factors driving the market demand?

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