

Global Al-Diamond Composites Market Growth 2026-2032

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Abstracts

The global Al-Diamond Composites 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 Al-Diamond composite materials is projected to reach 1.0596 million units, with an average selling price of \$120 per unit. The global annual production capacity for Al-Diamond composites stands at approximately 1.5 million units, with a gross margin of approximately 31.2%. Al-Diamond composite is an advanced thermal management material fabricated using processes such as powder metallurgy, pressure infiltration, or spark plasma sintering. It consists of a metal aluminum (or aluminum alloy) matrix reinforced by high-thermal-conductivity, high-hardness diamond particles (or other forms of diamond). The material is designed to leverage the ultra-high thermal conductivity of diamond, which can exceed 1000 W/m·K, to significantly enhance the thermal conductivity of the aluminum matrix. Simultaneously, it relies on the plastic deformability of the aluminum matrix to regulate and reduce the material's overall coefficient of thermal expansion, thereby ensuring excellent thermal matching with semiconductor chips (such as silicon, silicon carbide, etc.). Consequently, Al-Diamond composites are widely utilized in high-power LEDs, lasers, RF devices, and aerospace electronics as highly efficient heat-dissipating packaging substrates or heat sink materials. The upstream raw materials for Al-Diamond composites include various forms of diamond materials, aluminum, aluminum alloys, and similar inputs. The midstream segment comprises the manufacturers of Al-Diamond composites, while the downstream market is primarily concentrated in industries such as semiconductors, electronics, and aerospace.

The Al-Diamond composite market is currently in a growth phase, accelerating its

transition from laboratory research to commercial application. Driven by the surging demand for heat dissipation in high-power-density devices across sectors such as 5G communications, new energy vehicles, AI computing chips, and aerospace, this composite—which uniquely combines ultra-high thermal conductivity with a tunable low coefficient of thermal expansion—has emerged as the ideal solution for resolving thermal management bottlenecks. Currently, the market is concentrated primarily in regions possessing advanced materials R&D capabilities—including Europe, North America, Japan, and China—where a select few leading enterprises have already achieved small-batch production and successfully integrated into the supply chains for high-end electronic packaging and optoelectronics. Nevertheless, the material still faces significant challenges that limit its widespread adoption, such as complex fabrication processes, difficulties in controlling interfacial bonding, and relatively high production costs. Despite these hurdles, propelled by 'Dual Carbon' strategies and ongoing industrial upgrades, the demand for highly efficient thermal management solutions is becoming increasingly urgent; consequently, AI-Diamond composites—poised to serve as the next generation of thermal management materials—are projected to enjoy significantly expanded growth opportunities over the next five to ten years.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI-Diamond Composites 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 Al-Diamond Composites.

This report presents a comprehensive overview, market shares, and growth opportunities of Al-Diamond Composites 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 AI-Diamond Composites market?

What factors are driving AI-Diamond Composites market growth, globally and by region?

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

How do AI-Diamond Composites market opportunities vary by end market size?

How does AI-Diamond Composites break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Al-Diamond Composites Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Al-Diamond Composites by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Al-Diamond Composites by Country/Region, 2021, 2025 & 2032
- 2.2 Al-Diamond Composites Segment by Type
 - 2.2.1 Particulate-Reinforced
 - 2.2.2 Fiber-Reinforced
 - 2.2.3 Al-Diamond Composites Sales by Type
 - 2.2.3.1 Global Al-Diamond Composites Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Al-Diamond Composites Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Al-Diamond Composites Sale Price by Type (2021-2026)
- 2.3 Al-Diamond Composites Segment by Matrix Alloy Composition
 - 2.3.1 Pure Aluminum Matrix
 - 2.3.2 Aluminum Alloy Matrix
 - 2.3.3 Al-Diamond Composites Sales by Matrix Alloy Composition
 - 2.3.3.1 Global Al-Diamond Composites Sales Market Share by Matrix Alloy Composition (2021-2026)
 - 2.3.3.2 Global Al-Diamond Composites Revenue and Market Share by Matrix Alloy Composition (2021-2026)
 - 2.3.3.3 Global Al-Diamond Composites Sale Price by Matrix Alloy Composition (2021-2026)

2.4 Al-Diamond Composites Segment by Thermal Conductivity

2.4.1 400?500 W/(m?K)

2.4.2 500?700 W/(m?K)

2.4.3 >700 W/(m?K)

2.4.4 Al-Diamond Composites Sales by Thermal Conductivity

2.4.4.1 Global Al-Diamond Composites Sales Market Share by Thermal Conductivity (2021-2026)

2.4.4.2 Global Al-Diamond Composites Revenue and Market Share by Thermal Conductivity (2021-2026)

2.4.4.3 Global Al-Diamond Composites Sale Price by Thermal Conductivity (2021-2026)

2.5 Al-Diamond Composites Segment by Application

2.5.1 Semiconductors

2.5.2 Electronics

2.5.3 Aerospace

2.5.4 New Energy Vehicles

2.5.5 Robotics & Automation

2.5.6 Optical Communications

2.5.7 Others

2.5.8 Al-Diamond Composites Sales by Application

2.5.8.1 Global Al-Diamond Composites Sale Market Share by Application (2021-2026)

2.5.8.2 Global Al-Diamond Composites Revenue and Market Share by Application (2021-2026)

2.5.8.3 Global Al-Diamond Composites Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Al-Diamond Composites Breakdown Data by Company

3.1.1 Global Al-Diamond Composites Annual Sales by Company (2021-2026)

3.1.2 Global Al-Diamond Composites Sales Market Share by Company (2021-2026)

3.2 Global Al-Diamond Composites Annual Revenue by Company (2021-2026)

3.2.1 Global Al-Diamond Composites Revenue by Company (2021-2026)

3.2.2 Global Al-Diamond Composites Revenue Market Share by Company (2021-2026)

3.3 Global Al-Diamond Composites Sale Price by Company

3.4 Key Manufacturers Al-Diamond Composites Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Al-Diamond Composites Product Location Distribution

- 3.4.2 Players Al-Diamond Composites Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AL-DIAMOND COMPOSITES BY GEOGRAPHIC REGION

- 4.1 World Historic Al-Diamond Composites Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Al-Diamond Composites Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Al-Diamond Composites Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Al-Diamond Composites Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Al-Diamond Composites Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Al-Diamond Composites Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Al-Diamond Composites Sales Growth
- 4.4 APAC Al-Diamond Composites Sales Growth
- 4.5 Europe Al-Diamond Composites Sales Growth
- 4.6 Middle East & Africa Al-Diamond Composites Sales Growth

5 AMERICAS

- 5.1 Americas Al-Diamond Composites Sales by Country
 - 5.1.1 Americas Al-Diamond Composites Sales by Country (2021-2026)
 - 5.1.2 Americas Al-Diamond Composites Revenue by Country (2021-2026)
- 5.2 Americas Al-Diamond Composites Sales by Type (2021-2026)
- 5.3 Americas Al-Diamond Composites Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Al-Diamond Composites Sales by Region

- 6.1.1 APAC Al-Diamond Composites Sales by Region (2021-2026)
- 6.1.2 APAC Al-Diamond Composites Revenue by Region (2021-2026)
- 6.2 APAC Al-Diamond Composites Sales by Type (2021-2026)
- 6.3 APAC Al-Diamond Composites Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Al-Diamond Composites by Country
 - 7.1.1 Europe Al-Diamond Composites Sales by Country (2021-2026)
 - 7.1.2 Europe Al-Diamond Composites Revenue by Country (2021-2026)
- 7.2 Europe Al-Diamond Composites Sales by Type (2021-2026)
- 7.3 Europe Al-Diamond Composites Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Al-Diamond Composites by Country
 - 8.1.1 Middle East & Africa Al-Diamond Composites Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Al-Diamond Composites Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Al-Diamond Composites Sales by Type (2021-2026)
- 8.3 Middle East & Africa Al-Diamond Composites Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Al-Diamond Composites
- 10.3 Manufacturing Process Analysis of Al-Diamond Composites
- 10.4 Industry Chain Structure of Al-Diamond Composites

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Al-Diamond Composites Distributors
- 11.3 Al-Diamond Composites Customer

12 WORLD FORECAST REVIEW FOR AL-DIAMOND COMPOSITES BY GEOGRAPHIC REGION

- 12.1 Global Al-Diamond Composites Market Size Forecast by Region
 - 12.1.1 Global Al-Diamond Composites Forecast by Region (2027-2032)
 - 12.1.2 Global Al-Diamond Composites Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Al-Diamond Composites Forecast by Type (2027-2032)
- 12.7 Global Al-Diamond Composites Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Denka
 - 13.1.1 Denka Company Information
 - 13.1.2 Denka Al-Diamond Composites Product Portfolios and Specifications

13.1.3 Denka Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Denka Main Business Overview

13.1.5 Denka Latest Developments

13.2 Nano Materials International Corporation

13.2.1 Nano Materials International Corporation Company Information

13.2.2 Nano Materials International Corporation Al-Diamond Composites Product Portfolios and Specifications

13.2.3 Nano Materials International Corporation Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Nano Materials International Corporation Main Business Overview

13.2.5 Nano Materials International Corporation Latest Developments

13.3 THERMAL

13.3.1 THERMAL Company Information

13.3.2 THERMAL Al-Diamond Composites Product Portfolios and Specifications

13.3.3 THERMAL Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 THERMAL Main Business Overview

13.3.5 THERMAL Latest Developments

13.4 Harbin Yisheng New Materials Technology

13.4.1 Harbin Yisheng New Materials Technology Company Information

13.4.2 Harbin Yisheng New Materials Technology Al-Diamond Composites Product Portfolios and Specifications

13.4.3 Harbin Yisheng New Materials Technology Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Harbin Yisheng New Materials Technology Main Business Overview

13.4.5 Harbin Yisheng New Materials Technology Latest Developments

13.5 Grinm Metal Composites (Beijing) Technology

13.5.1 Grinm Metal Composites (Beijing) Technology Company Information

13.5.2 Grinm Metal Composites (Beijing) Technology Al-Diamond Composites Product Portfolios and Specifications

13.5.3 Grinm Metal Composites (Beijing) Technology Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Grinm Metal Composites (Beijing) Technology Main Business Overview

13.5.5 Grinm Metal Composites (Beijing) Technology Latest Developments

13.6 Guoji Diamond

13.6.1 Guoji Diamond Company Information

13.6.2 Guoji Diamond Al-Diamond Composites Product Portfolios and Specifications

13.6.3 Guoji Diamond Al-Diamond Composites Sales, Revenue, Price and Gross

Margin (2021-2026)

13.6.4 Guoji Diamond Main Business Overview

13.6.5 Guoji Diamond Latest Developments

13.7 Heatsink New Material Technology

13.7.1 Heatsink New Material Technology Company Information

13.7.2 Heatsink New Material Technology Al-Diamond Composites Product Portfolios and Specifications

13.7.3 Heatsink New Material Technology Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Heatsink New Material Technology Main Business Overview

13.7.5 Heatsink New Material Technology Latest Developments

13.8 Changzhou Tiger Electronic Technology

13.8.1 Changzhou Tiger Electronic Technology Company Information

13.8.2 Changzhou Tiger Electronic Technology Al-Diamond Composites Product Portfolios and Specifications

13.8.3 Changzhou Tiger Electronic Technology Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Changzhou Tiger Electronic Technology Main Business Overview

13.8.5 Changzhou Tiger Electronic Technology Latest Developments

13.9 Xi'an Chuangzheng New Materials

13.9.1 Xi'an Chuangzheng New Materials Company Information

13.9.2 Xi'an Chuangzheng New Materials Al-Diamond Composites Product Portfolios and Specifications

13.9.3 Xi'an Chuangzheng New Materials Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Xi'an Chuangzheng New Materials Main Business Overview

13.9.5 Xi'an Chuangzheng New Materials Latest Developments

13.10 Changsha Saneway Electronic Materials

13.10.1 Changsha Saneway Electronic Materials Company Information

13.10.2 Changsha Saneway Electronic Materials Al-Diamond Composites Product Portfolios and Specifications

13.10.3 Changsha Saneway Electronic Materials Al-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Changsha Saneway Electronic Materials Main Business Overview

13.10.5 Changsha Saneway Electronic Materials Latest Developments

13.11 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY

13.11.1 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Company Information

13.11.2 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Al-Diamond

Composites Product Portfolios and Specifications

13.11.3 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY AI-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Main Business Overview

13.11.5 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Latest Developments

13.12 Hunan Core Synergy Technology

13.12.1 Hunan Core Synergy Technology Company Information

13.12.2 Hunan Core Synergy Technology AI-Diamond Composites Product Portfolios and Specifications

13.12.3 Hunan Core Synergy Technology AI-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Hunan Core Synergy Technology Main Business Overview

13.12.5 Hunan Core Synergy Technology Latest Developments

13.13 Jiangsu Jingkun Technology

13.13.1 Jiangsu Jingkun Technology Company Information

13.13.2 Jiangsu Jingkun Technology AI-Diamond Composites Product Portfolios and Specifications

13.13.3 Jiangsu Jingkun Technology AI-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Jiangsu Jingkun Technology Main Business Overview

13.13.5 Jiangsu Jingkun Technology Latest Developments

13.14 Nanjing Realway New Material Technology

13.14.1 Nanjing Realway New Material Technology Company Information

13.14.2 Nanjing Realway New Material Technology AI-Diamond Composites Product Portfolios and Specifications

13.14.3 Nanjing Realway New Material Technology AI-Diamond Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Nanjing Realway New Material Technology Main Business Overview

13.14.5 Nanjing Realway New Material Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Al-Diamond Composites Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Al-Diamond Composites Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Particulate-Reinforced

Table 4. Major Players of Fiber-Reinforced

Table 5. Global Al-Diamond Composites Sales by Type (2021-2026) & (K Pcs)

Table 6. Global Al-Diamond Composites Sales Market Share by Type (2021-2026)

Table 7. Global Al-Diamond Composites Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Al-Diamond Composites Revenue Market Share by Type (2021-2026)

Table 9. Global Al-Diamond Composites Sale Price by Type (2021-2026) & (US\$/Pc)

Table 10. Major Players of Pure Aluminum Matrix

Table 11. Major Players of Aluminum Alloy Matrix

Table 12. Global Al-Diamond Composites Sales by Matrix Alloy Composition (2021-2026) & (K Pcs)

Table 13. Global Al-Diamond Composites Sales Market Share by Matrix Alloy Composition (2021-2026)

Table 14. Global Al-Diamond Composites Revenue by Matrix Alloy Composition (2021-2026) & (\$ million)

Table 15. Global Al-Diamond Composites Revenue Market Share by Matrix Alloy Composition (2021-2026)

Table 16. Global Al-Diamond Composites Sale Price by Matrix Alloy Composition (2021-2026) & (US\$/Pc)

Table 17. Major Players of 400?500 W/(m?K)

Table 18. Major Players of 500?700 W/(m?K)

Table 19. Major Players of >700 W/(m?K)

Table 20. Global Al-Diamond Composites Sales by Thermal Conductivity (2021-2026) & (K Pcs)

Table 21. Global Al-Diamond Composites Sales Market Share by Thermal Conductivity (2021-2026)

Table 22. Global Al-Diamond Composites Revenue by Thermal Conductivity (2021-2026) & (\$ million)

Table 23. Global Al-Diamond Composites Revenue Market Share by Thermal Conductivity (2021-2026)

Table 24. Global Al-Diamond Composites Sale Price by Thermal Conductivity

(2021-2026) & (US\$/Pc)

Table 25. Global Al-Diamond Composites Sale by Application (2021-2026) & (K Pcs)

Table 26. Global Al-Diamond Composites Sale Market Share by Application
(2021-2026)

Table 27. Global Al-Diamond Composites Revenue by Application (2021-2026) & (\$
million)

Table 28. Global Al-Diamond Composites Revenue Market Share by Application
(2021-2026)

Table 29. Global Al-Diamond Composites Sale Price by Application (2021-2026) &
(US\$/Pc)

Table 30. Global Al-Diamond Composites Sales by Company (2021-2026) & (K Pcs)

Table 31. Global Al-Diamond Composites Sales Market Share by Company
(2021-2026)

Table 32. Global Al-Diamond Composites Revenue by Company (2021-2026) & (\$
millions)

Table 33. Global Al-Diamond Composites Revenue Market Share by Company
(2021-2026)

Table 34. Global Al-Diamond Composites Sale Price by Company (2021-2026) &
(US\$/Pc)

Table 35. Key Manufacturers Al-Diamond Composites Producing Area Distribution and
Sales Area

Table 36. Players Al-Diamond Composites Products Offered

Table 37. Al-Diamond Composites Concentration Ratio (CR3, CR5 and CR10) &
(2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Al-Diamond Composites Sales by Geographic Region (2021-2026) &
(K Pcs)

Table 41. Global Al-Diamond Composites Sales Market Share Geographic Region
(2021-2026)

Table 42. Global Al-Diamond Composites Revenue by Geographic Region (2021-2026)
& (\$ millions)

Table 43. Global Al-Diamond Composites Revenue Market Share by Geographic
Region (2021-2026)

Table 44. Global Al-Diamond Composites Sales by Country/Region (2021-2026) & (K
Pcs)

Table 45. Global Al-Diamond Composites Sales Market Share by Country/Region
(2021-2026)

Table 46. Global Al-Diamond Composites Revenue by Country/Region (2021-2026) &

(\$ millions)

Table 47. Global AI-Diamond Composites Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas AI-Diamond Composites Sales by Country (2021-2026) & (K Pcs)

Table 49. Americas AI-Diamond Composites Sales Market Share by Country (2021-2026)

Table 50. Americas AI-Diamond Composites Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas AI-Diamond Composites Sales by Type (2021-2026) & (K Pcs)

Table 52. Americas AI-Diamond Composites Sales by Application (2021-2026) & (K Pcs)

Table 53. APAC AI-Diamond Composites Sales by Region (2021-2026) & (K Pcs)

Table 54. APAC AI-Diamond Composites Sales Market Share by Region (2021-2026)

Table 55. APAC AI-Diamond Composites Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC AI-Diamond Composites Sales by Type (2021-2026) & (K Pcs)

Table 57. APAC AI-Diamond Composites Sales by Application (2021-2026) & (K Pcs)

Table 58. Europe AI-Diamond Composites Sales by Country (2021-2026) & (K Pcs)

Table 59. Europe AI-Diamond Composites Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe AI-Diamond Composites Sales by Type (2021-2026) & (K Pcs)

Table 61. Europe AI-Diamond Composites Sales by Application (2021-2026) & (K Pcs)

Table 62. Middle East & Africa AI-Diamond Composites Sales by Country (2021-2026) & (K Pcs)

Table 63. Middle East & Africa AI-Diamond Composites Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa AI-Diamond Composites Sales by Type (2021-2026) & (K Pcs)

Table 65. Middle East & Africa AI-Diamond Composites Sales by Application (2021-2026) & (K Pcs)

Table 66. Key Market Drivers & Growth Opportunities of AI-Diamond Composites

Table 67. Key Market Challenges & Risks of AI-Diamond Composites

Table 68. Key Industry Trends of AI-Diamond Composites

Table 69. AI-Diamond Composites Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. AI-Diamond Composites Distributors List

Table 72. AI-Diamond Composites Customer List

Table 73. Global AI-Diamond Composites Sales Forecast by Region (2027-2032) & (K Pcs)

Table 74. Global AI-Diamond Composites Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas AI-Diamond Composites Sales Forecast by Country (2027-2032) & (K Pcs)

Table 76. Americas AI-Diamond Composites Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC AI-Diamond Composites Sales Forecast by Region (2027-2032) & (K Pcs)

Table 78. APAC AI-Diamond Composites Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe AI-Diamond Composites Sales Forecast by Country (2027-2032) & (K Pcs)

Table 80. Europe AI-Diamond Composites Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa AI-Diamond Composites Sales Forecast by Country (2027-2032) & (K Pcs)

Table 82. Middle East & Africa AI-Diamond Composites Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global AI-Diamond Composites Sales Forecast by Type (2027-2032) & (K Pcs)

Table 84. Global AI-Diamond Composites Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global AI-Diamond Composites Sales Forecast by Application (2027-2032) & (K Pcs)

Table 86. Global AI-Diamond Composites Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Denka Basic Information, AI-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 88. Denka AI-Diamond Composites Product Portfolios and Specifications

Table 89. Denka AI-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 90. Denka Main Business

Table 91. Denka Latest Developments

Table 92. Nano Materials International Corporation Basic Information, AI-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 93. Nano Materials International Corporation AI-Diamond Composites Product Portfolios and Specifications

Table 94. Nano Materials International Corporation AI-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 95. Nano Materials International Corporation Main Business

Table 96. Nano Materials International Corporation Latest Developments

Table 97. THERMAL Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 98. THERMAL Al-Diamond Composites Product Portfolios and Specifications

Table 99. THERMAL Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 100. THERMAL Main Business

Table 101. THERMAL Latest Developments

Table 102. Harbin Yisheng New Materials Technology Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 103. Harbin Yisheng New Materials Technology Al-Diamond Composites Product Portfolios and Specifications

Table 104. Harbin Yisheng New Materials Technology Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 105. Harbin Yisheng New Materials Technology Main Business

Table 106. Harbin Yisheng New Materials Technology Latest Developments

Table 107. Grinm Metal Composites (Beijing) Technology Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 108. Grinm Metal Composites (Beijing) Technology Al-Diamond Composites Product Portfolios and Specifications

Table 109. Grinm Metal Composites (Beijing) Technology Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 110. Grinm Metal Composites (Beijing) Technology Main Business

Table 111. Grinm Metal Composites (Beijing) Technology Latest Developments

Table 112. Guoji Diamond Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 113. Guoji Diamond Al-Diamond Composites Product Portfolios and Specifications

Table 114. Guoji Diamond Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 115. Guoji Diamond Main Business

Table 116. Guoji Diamond Latest Developments

Table 117. Heatsink New Material Technology Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 118. Heatsink New Material Technology Al-Diamond Composites Product Portfolios and Specifications

Table 119. Heatsink New Material Technology Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 120. Heatsink New Material Technology Main Business
Table 121. Heatsink New Material Technology Latest Developments
Table 122. Changzhou Tiger Electronic Technology Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors
Table 123. Changzhou Tiger Electronic Technology Al-Diamond Composites Product Portfolios and Specifications
Table 124. Changzhou Tiger Electronic Technology Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
Table 125. Changzhou Tiger Electronic Technology Main Business
Table 126. Changzhou Tiger Electronic Technology Latest Developments
Table 127. Xi'an Chuangzheng New Materials Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors
Table 128. Xi'an Chuangzheng New Materials Al-Diamond Composites Product Portfolios and Specifications
Table 129. Xi'an Chuangzheng New Materials Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
Table 130. Xi'an Chuangzheng New Materials Main Business
Table 131. Xi'an Chuangzheng New Materials Latest Developments
Table 132. Changsha Saneway Electronic Materials Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors
Table 133. Changsha Saneway Electronic Materials Al-Diamond Composites Product Portfolios and Specifications
Table 134. Changsha Saneway Electronic Materials Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
Table 135. Changsha Saneway Electronic Materials Main Business
Table 136. Changsha Saneway Electronic Materials Latest Developments
Table 137. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Basic Information, Al-Diamond Composites Manufacturing Base, Sales Area and Its Competitors
Table 138. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Al-Diamond Composites Product Portfolios and Specifications
Table 139. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Al-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
Table 140. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Main Business
Table 141. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Latest Developments
Table 142. Hunan Core Synergy Technology Basic Information, Al-Diamond

Composites Manufacturing Base, Sales Area and Its Competitors

Table 143. Hunan Core Synergy Technology AI-Diamond Composites Product Portfolios and Specifications

Table 144. Hunan Core Synergy Technology AI-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 145. Hunan Core Synergy Technology Main Business

Table 146. Hunan Core Synergy Technology Latest Developments

Table 147. Jiangsu Jingkun Technology Basic Information, AI-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 148. Jiangsu Jingkun Technology AI-Diamond Composites Product Portfolios and Specifications

Table 149. Jiangsu Jingkun Technology AI-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 150. Jiangsu Jingkun Technology Main Business

Table 151. Jiangsu Jingkun Technology Latest Developments

Table 152. Nanjing Realway New Material Technology Basic Information, AI-Diamond Composites Manufacturing Base, Sales Area and Its Competitors

Table 153. Nanjing Realway New Material Technology AI-Diamond Composites Product Portfolios and Specifications

Table 154. Nanjing Realway New Material Technology AI-Diamond Composites Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 155. Nanjing Realway New Material Technology Main Business

Table 156. Nanjing Realway New Material Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Al-Diamond Composites
- Figure 2. Al-Diamond Composites Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Al-Diamond Composites Sales Growth Rate 2021-2032 (K Pcs)
- Figure 7. Global Al-Diamond Composites Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Al-Diamond Composites Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Al-Diamond Composites Sales Market Share by Country/Region (2025)
- Figure 10. Al-Diamond Composites Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Particulate-Reinforced
- Figure 12. Product Picture of Fiber-Reinforced
- Figure 13. Global Al-Diamond Composites Sales Market Share by Type in 2026
- Figure 14. Global Al-Diamond Composites Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Pure Aluminum Matrix
- Figure 16. Product Picture of Aluminum Alloy Matrix
- Figure 17. Global Al-Diamond Composites Sales Market Share by Matrix Alloy Composition in 2026
- Figure 18. Global Al-Diamond Composites Revenue Market Share by Matrix Alloy Composition (2021-2026)
- Figure 19. Product Picture of 400?500 W/(m?K)
- Figure 20. Product Picture of 500?700 W/(m?K)
- Figure 21. Product Picture of >700 W/(m?K)
- Figure 22. Global Al-Diamond Composites Sales Market Share by Thermal Conductivity in 2026
- Figure 23. Global Al-Diamond Composites Revenue Market Share by Thermal Conductivity (2021-2026)
- Figure 24. Al-Diamond Composites Consumed in Semiconductors
- Figure 25. Global Al-Diamond Composites Market: Semiconductors (2021-2026) & (K Pcs)
- Figure 26. Al-Diamond Composites Consumed in Electronics
- Figure 27. Global Al-Diamond Composites Market: Electronics (2021-2026) & (K Pcs)
- Figure 28. Al-Diamond Composites Consumed in Aerospace

Figure 29. Global Al-Diamond Composites Market: Aerospace (2021-2026) & (K Pcs)

Figure 30. Al-Diamond Composites Consumed in New Energy Vehicles

Figure 31. Global Al-Diamond Composites Market: New Energy Vehicles (2021-2026) & (K Pcs)

Figure 32. Al-Diamond Composites Consumed in Robotics & Automation

Figure 33. Global Al-Diamond Composites Market: Robotics & Automation (2021-2026) & (K Pcs)

Figure 34. Al-Diamond Composites Consumed in Optical Communications

Figure 35. Global Al-Diamond Composites Market: Optical Communications (2021-2026) & (K Pcs)

Figure 36. Al-Diamond Composites Consumed in Others

Figure 37. Global Al-Diamond Composites Market: Others (2021-2026) & (K Pcs)

Figure 38. Global Al-Diamond Composites Sales Market Share by Application (2025)

Figure 39. Global Al-Diamond Composites Revenue Market Share by Application in 2025

Figure 40. Al-Diamond Composites Sales by Company in 2025 (K Pcs)

Figure 41. Global Al-Diamond Composites Sales Market Share by Company in 2025

Figure 42. Al-Diamond Composites Revenue by Company in 2025 (\$ millions)

Figure 43. Global Al-Diamond Composites Revenue Market Share by Company in 2025

Figure 44. Global Al-Diamond Composites Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global Al-Diamond Composites Revenue Market Share by Geographic Region in 2025

Figure 46. Americas Al-Diamond Composites Sales 2021-2026 (K Pcs)

Figure 47. Americas Al-Diamond Composites Revenue 2021-2026 (\$ millions)

Figure 48. APAC Al-Diamond Composites Sales 2021-2026 (K Pcs)

Figure 49. APAC Al-Diamond Composites Revenue 2021-2026 (\$ millions)

Figure 50. Europe Al-Diamond Composites Sales 2021-2026 (K Pcs)

Figure 51. Europe Al-Diamond Composites Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa Al-Diamond Composites Sales 2021-2026 (K Pcs)

Figure 53. Middle East & Africa Al-Diamond Composites Revenue 2021-2026 (\$ millions)

Figure 54. Americas Al-Diamond Composites Sales Market Share by Country in 2025

Figure 55. Americas Al-Diamond Composites Revenue Market Share by Country (2021-2026)

Figure 56. Americas Al-Diamond Composites Sales Market Share by Type (2021-2026)

Figure 57. Americas Al-Diamond Composites Sales Market Share by Application (2021-2026)

Figure 58. United States Al-Diamond Composites Revenue Growth 2021-2026 (\$

millions)

Figure 59. Canada Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC Al-Diamond Composites Sales Market Share by Region in 2025

Figure 63. APAC Al-Diamond Composites Revenue Market Share by Region
(2021-2026)

Figure 64. APAC Al-Diamond Composites Sales Market Share by Type (2021-2026)

Figure 65. APAC Al-Diamond Composites Sales Market Share by Application
(2021-2026)

Figure 66. China Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea Al-Diamond Composites Revenue Growth 2021-2026 (\$
millions)

Figure 69. Southeast Asia Al-Diamond Composites Revenue Growth 2021-2026 (\$
millions)

Figure 70. India Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 71. Australia Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 72. China Taiwan Al-Diamond Composites Revenue Growth 2021-2026 (\$
millions)

Figure 73. Europe Al-Diamond Composites Sales Market Share by Country in 2025

Figure 74. Europe Al-Diamond Composites Revenue Market Share by Country
(2021-2026)

Figure 75. Europe Al-Diamond Composites Sales Market Share by Type (2021-2026)

Figure 76. Europe Al-Diamond Composites Sales Market Share by Application
(2021-2026)

Figure 77. Germany Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 78. France Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa Al-Diamond Composites Sales Market Share by
Country (2021-2026)

Figure 83. Middle East & Africa Al-Diamond Composites Sales Market Share by Type
(2021-2026)

Figure 84. Middle East & Africa Al-Diamond Composites Sales Market Share by
Application (2021-2026)

Figure 85. Egypt Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa Al-Diamond Composites Revenue Growth 2021-2026 (\$

millions)

Figure 87. Israel Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries Al-Diamond Composites Revenue Growth 2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of Al-Diamond Composites in 2026

Figure 91. Manufacturing Process Analysis of Al-Diamond Composites

Figure 92. Industry Chain Structure of Al-Diamond Composites

Figure 93. Channels of Distribution

Figure 94. Global Al-Diamond Composites Sales Market Forecast by Region (2027-2032)

Figure 95. Global Al-Diamond Composites Revenue Market Share Forecast by Region (2027-2032)

Figure 96. Global Al-Diamond Composites Sales Market Share Forecast by Type (2027-2032)

Figure 97. Global Al-Diamond Composites Revenue Market Share Forecast by Type (2027-2032)

Figure 98. Global Al-Diamond Composites Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global Al-Diamond Composites Revenue Market Share Forecast by Application (2027-2032)

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