

Global Al-Diamond Composites Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Al-Diamond Composites market size is expected to reach \$ 167 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

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, Al-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.

This report studies the global Al-Diamond Composites production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Al-Diamond Composites 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 Al-Diamond Composites that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Al-Diamond Composites total production and demand, 2021-2032, (K Pcs)

Global Al-Diamond Composites total production value, 2021-2032, (USD Million)

Global Al-Diamond Composites production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Al-Diamond Composites consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Al-Diamond Composites domestic production, consumption, key domestic manufacturers and share

Global Al-Diamond Composites production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Al-Diamond Composites production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global AI-Diamond Composites production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global AI-Diamond Composites 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI-Diamond Composites market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Al-Diamond Composites Market, Segmentation by Type:

Particulate-Reinforced

Fiber-Reinforced

Global Al-Diamond Composites Market, Segmentation by Matrix Alloy Composition:

Pure Aluminum Matrix

Aluminum Alloy Matrix

Global Al-Diamond Composites Market, Segmentation by Thermal Conductivity:

400?500 W/(m?K)

500?700 W/(m?K)

>700 W/(m?K)

Global Al-Diamond Composites Market, Segmentation by Application:

Semiconductors

Electronics

Aerospace

New Energy Vehicles

Robotics & Automation

Optical Communications

Others

Companies Profiled:

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 Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Al-Diamond Composites Introduction
- 1.2 World Al-Diamond Composites Supply & Forecast
 - 1.2.1 World Al-Diamond Composites Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Al-Diamond Composites Production (2021-2032)
 - 1.2.3 World Al-Diamond Composites Pricing Trends (2021-2032)
- 1.3 World Al-Diamond Composites Production by Region (Based on Production Site)
 - 1.3.1 World Al-Diamond Composites Production Value by Region (2021-2032)
 - 1.3.2 World Al-Diamond Composites Production by Region (2021-2032)
 - 1.3.3 World Al-Diamond Composites Average Price by Region (2021-2032)
 - 1.3.4 North America Al-Diamond Composites Production (2021-2032)
 - 1.3.5 Europe Al-Diamond Composites Production (2021-2032)
 - 1.3.6 China Al-Diamond Composites Production (2021-2032)
 - 1.3.7 Japan Al-Diamond Composites Production (2021-2032)
 - 1.3.8 India Al-Diamond Composites Production (2021-2032)
 - 1.3.9 Southeast Asia Al-Diamond Composites Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Al-Diamond Composites Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Al-Diamond Composites Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Al-Diamond Composites Demand (2021-2032)
- 2.2 World Al-Diamond Composites Consumption by Region
 - 2.2.1 World Al-Diamond Composites Consumption by Region (2021-2026)
 - 2.2.2 World Al-Diamond Composites Consumption Forecast by Region (2027-2032)
- 2.3 United States Al-Diamond Composites Consumption (2021-2032)
- 2.4 China Al-Diamond Composites Consumption (2021-2032)
- 2.5 Europe Al-Diamond Composites Consumption (2021-2032)
- 2.6 Japan Al-Diamond Composites Consumption (2021-2032)
- 2.7 South Korea Al-Diamond Composites Consumption (2021-2032)
- 2.8 ASEAN Al-Diamond Composites Consumption (2021-2032)
- 2.9 India Al-Diamond Composites Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World AI-Diamond Composites Production Value by Manufacturer (2021-2026)
- 3.2 World AI-Diamond Composites Production by Manufacturer (2021-2026)
- 3.3 World AI-Diamond Composites Average Price by Manufacturer (2021-2026)
- 3.4 AI-Diamond Composites Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global AI-Diamond Composites Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for AI-Diamond Composites in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for AI-Diamond Composites in 2025
- 3.6 AI-Diamond Composites Market: Overall Company Footprint Analysis
 - 3.6.1 AI-Diamond Composites Market: Region Footprint
 - 3.6.2 AI-Diamond Composites Market: Company Product Type Footprint
 - 3.6.3 AI-Diamond Composites Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: AI-Diamond Composites Production Value Comparison
 - 4.1.1 United States VS China: AI-Diamond Composites Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: AI-Diamond Composites Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: AI-Diamond Composites Production Comparison
 - 4.2.1 United States VS China: AI-Diamond Composites Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: AI-Diamond Composites Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: AI-Diamond Composites Consumption Comparison
 - 4.3.1 United States VS China: AI-Diamond Composites Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: AI-Diamond Composites Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based AI-Diamond Composites Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Al-Diamond Composites Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Al-Diamond Composites Production Value (2021-2026)

4.4.3 United States Based Manufacturers Al-Diamond Composites Production (2021-2026)

4.5 China Based Al-Diamond Composites Manufacturers and Market Share

4.5.1 China Based Al-Diamond Composites Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Al-Diamond Composites Production Value (2021-2026)

4.5.3 China Based Manufacturers Al-Diamond Composites Production (2021-2026)

4.6 Rest of World Based Al-Diamond Composites Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Al-Diamond Composites Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Al-Diamond Composites Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Al-Diamond Composites Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Al-Diamond Composites Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Particulate-Reinforced

5.2.2 Fiber-Reinforced

5.3 Market Segment by Type

5.3.1 World Al-Diamond Composites Production by Type (2021-2032)

5.3.2 World Al-Diamond Composites Production Value by Type (2021-2032)

5.3.3 World Al-Diamond Composites Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MATRIX ALLOY COMPOSITION

6.1 World Al-Diamond Composites Market Size Overview by Matrix Alloy Composition: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Matrix Alloy Composition

6.2.1 Pure Aluminum Matrix

6.2.2 Aluminum Alloy Matrix

6.3 Market Segment by Matrix Alloy Composition

6.3.1 World Al-Diamond Composites Production by Matrix Alloy Composition (2021-2032)

6.3.2 World Al-Diamond Composites Production Value by Matrix Alloy Composition (2021-2032)

6.3.3 World Al-Diamond Composites Average Price by Matrix Alloy Composition (2021-2032)

7 MARKET ANALYSIS BY THERMAL CONDUCTIVITY

7.1 World Al-Diamond Composites Market Size Overview by Thermal Conductivity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Thermal Conductivity

7.2.1 400?500 W/(m?K)

7.2.2 500?700 W/(m?K)

7.2.3 >700 W/(m?K)

7.3 Market Segment by Thermal Conductivity

7.3.1 World Al-Diamond Composites Production by Thermal Conductivity (2021-2032)

7.3.2 World Al-Diamond Composites Production Value by Thermal Conductivity (2021-2032)

7.3.3 World Al-Diamond Composites Average Price by Thermal Conductivity (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Al-Diamond Composites Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Semiconductors

8.2.2 Electronics

8.2.3 Aerospace

8.2.4 New Energy Vehicles

8.2.5 Robotics & Automation

8.2.6 Optical Communications

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World Al-Diamond Composites Production by Application (2021-2032)

8.3.2 World Al-Diamond Composites Production Value by Application (2021-2032)

8.3.3 World Al-Diamond Composites Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Denka

9.1.1 Denka Details

9.1.2 Denka Major Business

9.1.3 Denka Al-Diamond Composites Product and Services

9.1.4 Denka Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Denka Recent Developments/Updates

9.1.6 Denka Competitive Strengths & Weaknesses

9.2 Nano Materials International Corporation

9.2.1 Nano Materials International Corporation Details

9.2.2 Nano Materials International Corporation Major Business

9.2.3 Nano Materials International Corporation Al-Diamond Composites Product and Services

9.2.4 Nano Materials International Corporation Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Nano Materials International Corporation Recent Developments/Updates

9.2.6 Nano Materials International Corporation Competitive Strengths & Weaknesses

9.3 THERMAL

9.3.1 THERMAL Details

9.3.2 THERMAL Major Business

9.3.3 THERMAL Al-Diamond Composites Product and Services

9.3.4 THERMAL Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 THERMAL Recent Developments/Updates

9.3.6 THERMAL Competitive Strengths & Weaknesses

9.4 Harbin Yisheng New Materials Technology

9.4.1 Harbin Yisheng New Materials Technology Details

9.4.2 Harbin Yisheng New Materials Technology Major Business

9.4.3 Harbin Yisheng New Materials Technology Al-Diamond Composites Product and Services

9.4.4 Harbin Yisheng New Materials Technology Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Harbin Yisheng New Materials Technology Recent Developments/Updates

9.4.6 Harbin Yisheng New Materials Technology Competitive Strengths & Weaknesses

9.5 Grinm Metal Composites (Beijing) Technology

9.5.1 Grinm Metal Composites (Beijing) Technology Details

9.5.2 Grinm Metal Composites (Beijing) Technology Major Business

9.5.3 Grinm Metal Composites (Beijing) Technology AI-Diamond Composites Product and Services

9.5.4 Grinm Metal Composites (Beijing) Technology AI-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Grinm Metal Composites (Beijing) Technology Recent Developments/Updates

9.5.6 Grinm Metal Composites (Beijing) Technology Competitive Strengths & Weaknesses

9.6 Guoji Diamond

9.6.1 Guoji Diamond Details

9.6.2 Guoji Diamond Major Business

9.6.3 Guoji Diamond AI-Diamond Composites Product and Services

9.6.4 Guoji Diamond AI-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Guoji Diamond Recent Developments/Updates

9.6.6 Guoji Diamond Competitive Strengths & Weaknesses

9.7 Heatsink New Material Technology

9.7.1 Heatsink New Material Technology Details

9.7.2 Heatsink New Material Technology Major Business

9.7.3 Heatsink New Material Technology AI-Diamond Composites Product and Services

9.7.4 Heatsink New Material Technology AI-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Heatsink New Material Technology Recent Developments/Updates

9.7.6 Heatsink New Material Technology Competitive Strengths & Weaknesses

9.8 Changzhou Tiger Electronic Technology

9.8.1 Changzhou Tiger Electronic Technology Details

9.8.2 Changzhou Tiger Electronic Technology Major Business

9.8.3 Changzhou Tiger Electronic Technology AI-Diamond Composites Product and Services

9.8.4 Changzhou Tiger Electronic Technology AI-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Changzhou Tiger Electronic Technology Recent Developments/Updates

9.8.6 Changzhou Tiger Electronic Technology Competitive Strengths & Weaknesses

9.9 Xi'an Chuangzheng New Materials

9.9.1 Xi'an Chuangzheng New Materials Details

9.9.2 Xi'an Chuangzheng New Materials Major Business

9.9.3 Xi'an Chuangzheng New Materials Al-Diamond Composites Product and Services

9.9.4 Xi'an Chuangzheng New Materials Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Xi'an Chuangzheng New Materials Recent Developments/Updates

9.9.6 Xi'an Chuangzheng New Materials Competitive Strengths & Weaknesses

9.10 Changsha Saneway Electronic Materials

9.10.1 Changsha Saneway Electronic Materials Details

9.10.2 Changsha Saneway Electronic Materials Major Business

9.10.3 Changsha Saneway Electronic Materials Al-Diamond Composites Product and Services

9.10.4 Changsha Saneway Electronic Materials Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Changsha Saneway Electronic Materials Recent Developments/Updates

9.10.6 Changsha Saneway Electronic Materials Competitive Strengths & Weaknesses

9.11 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY

9.11.1 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Details

9.11.2 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Major Business

9.11.3 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Al-Diamond Composites Product and Services

9.11.4 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Recent Developments/Updates

9.11.6 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Competitive Strengths & Weaknesses

9.12 Hunan Core Synergy Technology

9.12.1 Hunan Core Synergy Technology Details

9.12.2 Hunan Core Synergy Technology Major Business

9.12.3 Hunan Core Synergy Technology Al-Diamond Composites Product and Services

9.12.4 Hunan Core Synergy Technology Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Hunan Core Synergy Technology Recent Developments/Updates

9.12.6 Hunan Core Synergy Technology Competitive Strengths & Weaknesses

9.13 Jiangsu Jingkun Technology

9.13.1 Jiangsu Jingkun Technology Details

9.13.2 Jiangsu Jingkun Technology Major Business

- 9.13.3 Jiangsu Jingkun Technology Al-Diamond Composites Product and Services
- 9.13.4 Jiangsu Jingkun Technology Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Jiangsu Jingkun Technology Recent Developments/Updates
- 9.13.6 Jiangsu Jingkun Technology Competitive Strengths & Weaknesses
- 9.14 Nanjing Realway New Material Technology
 - 9.14.1 Nanjing Realway New Material Technology Details
 - 9.14.2 Nanjing Realway New Material Technology Major Business
 - 9.14.3 Nanjing Realway New Material Technology Al-Diamond Composites Product and Services
 - 9.14.4 Nanjing Realway New Material Technology Al-Diamond Composites Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Nanjing Realway New Material Technology Recent Developments/Updates
 - 9.14.6 Nanjing Realway New Material Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Al-Diamond Composites Industry Chain
- 10.2 Al-Diamond Composites Upstream Analysis
 - 10.2.1 Al-Diamond Composites Core Raw Materials
 - 10.2.2 Main Manufacturers of Al-Diamond Composites Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Al-Diamond Composites Production Mode
- 10.6 Al-Diamond Composites Procurement Model
- 10.7 Al-Diamond Composites Industry Sales Model and Sales Channels
 - 10.7.1 Al-Diamond Composites Sales Model
 - 10.7.2 Al-Diamond Composites Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World AI-Diamond Composites Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AI-Diamond Composites Production Value by Region (2021-2026) & (USD Million)

Table 3. World AI-Diamond Composites Production Value by Region (2027-2032) & (USD Million)

Table 4. World AI-Diamond Composites Production Value Market Share by Region (2021-2026)

Table 5. World AI-Diamond Composites Production Value Market Share by Region (2027-2032)

Table 6. World AI-Diamond Composites Production by Region (2021-2026) & (K Pcs)

Table 7. World AI-Diamond Composites Production by Region (2027-2032) & (K Pcs)

Table 8. World AI-Diamond Composites Production Market Share by Region (2021-2026)

Table 9. World AI-Diamond Composites Production Market Share by Region (2027-2032)

Table 10. World AI-Diamond Composites Average Price by Region (2021-2026) & (US\$/Pc)

Table 11. World AI-Diamond Composites Average Price by Region (2027-2032) & (US\$/Pc)

Table 12. AI-Diamond Composites Major Market Trends

Table 13. World AI-Diamond Composites Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World AI-Diamond Composites Consumption by Region (2021-2026) & (K Pcs)

Table 15. World AI-Diamond Composites Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World AI-Diamond Composites Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AI-Diamond Composites Producers in 2025

Table 18. World AI-Diamond Composites Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key AI-Diamond Composites Producers in 2025

Table 20. World AI-Diamond Composites Average Price by Manufacturer (2021-2026) &

(US\$/Pc)

Table 21. Global AI-Diamond Composites Company Evaluation Quadrant

Table 22. World AI-Diamond Composites Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AI-Diamond Composites Production Site of Key Manufacturer

Table 24. AI-Diamond Composites Market: Company Product Type Footprint

Table 25. AI-Diamond Composites Market: Company Product Application Footprint

Table 26. AI-Diamond Composites Competitive Factors

Table 27. AI-Diamond Composites New Entrant and Capacity Expansion Plans

Table 28. AI-Diamond Composites Mergers & Acquisitions Activity

Table 29. United States VS China AI-Diamond Composites Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AI-Diamond Composites Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China AI-Diamond Composites Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based AI-Diamond Composites Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AI-Diamond Composites Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AI-Diamond Composites Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AI-Diamond Composites Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers AI-Diamond Composites Production Market Share (2021-2026)

Table 37. China Based AI-Diamond Composites Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AI-Diamond Composites Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AI-Diamond Composites Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AI-Diamond Composites Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers AI-Diamond Composites Production Market Share (2021-2026)

Table 42. Rest of World Based AI-Diamond Composites Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AI-Diamond Composites Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AI-Diamond Composites Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AI-Diamond Composites Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers AI-Diamond Composites Production Market Share (2021-2026)

Table 47. World AI-Diamond Composites Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World AI-Diamond Composites Production by Type (2021-2026) & (K Pcs)

Table 49. World AI-Diamond Composites Production by Type (2027-2032) & (K Pcs)

Table 50. World AI-Diamond Composites Production Value by Type (2021-2026) & (USD Million)

Table 51. World AI-Diamond Composites Production Value by Type (2027-2032) & (USD Million)

Table 52. World AI-Diamond Composites Average Price by Type (2021-2026) & (US\$/Pc)

Table 53. World AI-Diamond Composites Average Price by Type (2027-2032) & (US\$/Pc)

Table 54. World AI-Diamond Composites Production Value by Matrix Alloy Composition, (USD Million), 2021 & 2025 & 2032

Table 55. World AI-Diamond Composites Production by Matrix Alloy Composition (2021-2026) & (K Pcs)

Table 56. World AI-Diamond Composites Production by Matrix Alloy Composition (2027-2032) & (K Pcs)

Table 57. World AI-Diamond Composites Production Value by Matrix Alloy Composition (2021-2026) & (USD Million)

Table 58. World AI-Diamond Composites Production Value by Matrix Alloy Composition (2027-2032) & (USD Million)

Table 59. World AI-Diamond Composites Average Price by Matrix Alloy Composition (2021-2026) & (US\$/Pc)

Table 60. World AI-Diamond Composites Average Price by Matrix Alloy Composition (2027-2032) & (US\$/Pc)

Table 61. World AI-Diamond Composites Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Table 62. World AI-Diamond Composites Production by Thermal Conductivity (2021-2026) & (K Pcs)

Table 63. World AI-Diamond Composites Production by Thermal Conductivity

(2027-2032) & (K Pcs)

Table 64. World Al-Diamond Composites Production Value by Thermal Conductivity (2021-2026) & (USD Million)

Table 65. World Al-Diamond Composites Production Value by Thermal Conductivity (2027-2032) & (USD Million)

Table 66. World Al-Diamond Composites Average Price by Thermal Conductivity (2021-2026) & (US\$/Pc)

Table 67. World Al-Diamond Composites Average Price by Thermal Conductivity (2027-2032) & (US\$/Pc)

Table 68. World Al-Diamond Composites Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Al-Diamond Composites Production by Application (2021-2026) & (K Pcs)

Table 70. World Al-Diamond Composites Production by Application (2027-2032) & (K Pcs)

Table 71. World Al-Diamond Composites Production Value by Application (2021-2026) & (USD Million)

Table 72. World Al-Diamond Composites Production Value by Application (2027-2032) & (USD Million)

Table 73. World Al-Diamond Composites Average Price by Application (2021-2026) & (US\$/Pc)

Table 74. World Al-Diamond Composites Average Price by Application (2027-2032) & (US\$/Pc)

Table 75. Denka Basic Information, Manufacturing Base and Competitors

Table 76. Denka Major Business

Table 77. Denka Al-Diamond Composites Product and Services

Table 78. Denka Al-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Denka Recent Developments/Updates

Table 80. Denka Competitive Strengths & Weaknesses

Table 81. Nano Materials International Corporation Basic Information, Manufacturing Base and Competitors

Table 82. Nano Materials International Corporation Major Business

Table 83. Nano Materials International Corporation Al-Diamond Composites Product and Services

Table 84. Nano Materials International Corporation Al-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Nano Materials International Corporation Recent Developments/Updates

Table 86. Nano Materials International Corporation Competitive Strengths & Weaknesses
Table 87. THERMAL Basic Information, Manufacturing Base and Competitors
Table 88. THERMAL Major Business
Table 89. THERMAL AI-Diamond Composites Product and Services
Table 90. THERMAL AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. THERMAL Recent Developments/Updates
Table 92. THERMAL Competitive Strengths & Weaknesses
Table 93. Harbin Yisheng New Materials Technology Basic Information, Manufacturing Base and Competitors
Table 94. Harbin Yisheng New Materials Technology Major Business
Table 95. Harbin Yisheng New Materials Technology AI-Diamond Composites Product and Services
Table 96. Harbin Yisheng New Materials Technology AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Harbin Yisheng New Materials Technology Recent Developments/Updates
Table 98. Harbin Yisheng New Materials Technology Competitive Strengths & Weaknesses
Table 99. Grinm Metal Composites (Beijing) Technology Basic Information, Manufacturing Base and Competitors
Table 100. Grinm Metal Composites (Beijing) Technology Major Business
Table 101. Grinm Metal Composites (Beijing) Technology AI-Diamond Composites Product and Services
Table 102. Grinm Metal Composites (Beijing) Technology AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Grinm Metal Composites (Beijing) Technology Recent Developments/Updates
Table 104. Grinm Metal Composites (Beijing) Technology Competitive Strengths & Weaknesses
Table 105. Guoji Diamond Basic Information, Manufacturing Base and Competitors
Table 106. Guoji Diamond Major Business
Table 107. Guoji Diamond AI-Diamond Composites Product and Services
Table 108. Guoji Diamond AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Guoji Diamond Recent Developments/Updates
Table 110. Guoji Diamond Competitive Strengths & Weaknesses

Table 111. Heatsink New Material Technology Basic Information, Manufacturing Base and Competitors

Table 112. Heatsink New Material Technology Major Business

Table 113. Heatsink New Material Technology AI-Diamond Composites Product and Services

Table 114. Heatsink New Material Technology AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Heatsink New Material Technology Recent Developments/Updates

Table 116. Heatsink New Material Technology Competitive Strengths & Weaknesses

Table 117. Changzhou Tiger Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 118. Changzhou Tiger Electronic Technology Major Business

Table 119. Changzhou Tiger Electronic Technology AI-Diamond Composites Product and Services

Table 120. Changzhou Tiger Electronic Technology AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Changzhou Tiger Electronic Technology Recent Developments/Updates

Table 122. Changzhou Tiger Electronic Technology Competitive Strengths & Weaknesses

Table 123. Xi'an Chuangzheng New Materials Basic Information, Manufacturing Base and Competitors

Table 124. Xi'an Chuangzheng New Materials Major Business

Table 125. Xi'an Chuangzheng New Materials AI-Diamond Composites Product and Services

Table 126. Xi'an Chuangzheng New Materials AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Xi'an Chuangzheng New Materials Recent Developments/Updates

Table 128. Xi'an Chuangzheng New Materials Competitive Strengths & Weaknesses

Table 129. Changsha Saneway Electronic Materials Basic Information, Manufacturing Base and Competitors

Table 130. Changsha Saneway Electronic Materials Major Business

Table 131. Changsha Saneway Electronic Materials AI-Diamond Composites Product and Services

Table 132. Changsha Saneway Electronic Materials AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Changsha Saneway Electronic Materials Recent Developments/Updates

Table 134. Changsha Saneway Electronic Materials Competitive Strengths & Weaknesses

Table 135. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 136. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Major Business

Table 137. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY AI-Diamond Composites Product and Services

Table 138. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Recent Developments/Updates

Table 140. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Competitive Strengths & Weaknesses

Table 141. Hunan Core Synergy Technology Basic Information, Manufacturing Base and Competitors

Table 142. Hunan Core Synergy Technology Major Business

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

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

Table 145. Hunan Core Synergy Technology Recent Developments/Updates

Table 146. Hunan Core Synergy Technology Competitive Strengths & Weaknesses

Table 147. Jiangsu Jingkun Technology Basic Information, Manufacturing Base and Competitors

Table 148. Jiangsu Jingkun Technology Major Business

Table 149. Jiangsu Jingkun Technology AI-Diamond Composites Product and Services

Table 150. Jiangsu Jingkun Technology AI-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Jiangsu Jingkun Technology Recent Developments/Updates

Table 152. Jiangsu Jingkun Technology Competitive Strengths & Weaknesses

Table 153. Nanjing Realway New Material Technology Basic Information, Manufacturing Base and Competitors

Table 154. Nanjing Realway New Material Technology Major Business

Table 155. Nanjing Realway New Material Technology AI-Diamond Composites Product

and Services

Table 156. Nanjing Realway New Material Technology Al-Diamond Composites Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Nanjing Realway New Material Technology Recent Developments/Updates

Table 158. Nanjing Realway New Material Technology Competitive Strengths & Weaknesses

Table 159. Global Key Players of Al-Diamond Composites Upstream (Raw Materials)

Table 160. Global Al-Diamond Composites Typical Customers

Table 161. Al-Diamond Composites Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Al-Diamond Composites Picture

Figure 2. World Al-Diamond Composites Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Al-Diamond Composites Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 5. World Al-Diamond Composites Average Price (2021-2032) & (US\$/Pc)

Figure 6. World Al-Diamond Composites Production Value Market Share by Region (2021-2032)

Figure 7. World Al-Diamond Composites Production Market Share by Region (2021-2032)

Figure 8. North America Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 9. Europe Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 10. China Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 11. Japan Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 12. India Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 13. Southeast Asia Al-Diamond Composites Production (2021-2032) & (K Pcs)

Figure 14. Al-Diamond Composites Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 17. World Al-Diamond Composites Consumption Market Share by Region (2021-2032)

Figure 18. United States Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 19. China Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 20. Europe Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 21. Japan Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 22. South Korea Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 23. ASEAN Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 24. India Al-Diamond Composites Consumption (2021-2032) & (K Pcs)

Figure 25. Producer Shipments of Al-Diamond Composites by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Al-Diamond Composites Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Al-Diamond Composites Markets in 2025

Figure 28. United States VS China: Al-Diamond Composites Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Al-Diamond Composites Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Al-Diamond Composites Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Al-Diamond Composites Production Market Share 2025

Figure 32. China Based Manufacturers Al-Diamond Composites Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Al-Diamond Composites Production Market Share 2025

Figure 34. World Al-Diamond Composites Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Al-Diamond Composites Production Value Market Share by Type in 2025

Figure 36. Particulate-Reinforced

Figure 37. Fiber-Reinforced

Figure 38. World Al-Diamond Composites Production Market Share by Type (2021-2032)

Figure 39. World Al-Diamond Composites Production Value Market Share by Type (2021-2032)

Figure 40. World Al-Diamond Composites Average Price by Type (2021-2032) & (US\$/Pc)

Figure 41. World Al-Diamond Composites Production Value by Matrix Alloy Composition, (USD Million), 2021 & 2025 & 2032

Figure 42. World Al-Diamond Composites Production Value Market Share by Matrix Alloy Composition in 2025

Figure 43. Pure Aluminum Matrix

Figure 44. Aluminum Alloy Matrix

Figure 45. World Al-Diamond Composites Production Market Share by Matrix Alloy Composition (2021-2032)

Figure 46. World Al-Diamond Composites Production Value Market Share by Matrix Alloy Composition (2021-2032)

Figure 47. World Al-Diamond Composites Average Price by Matrix Alloy Composition (2021-2032) & (US\$/Pc)

Figure 48. World Al-Diamond Composites Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Figure 49. World Al-Diamond Composites Production Value Market Share by Thermal

Conductivity in 2025

Figure 50. 400?500 W/(m?K)

Figure 51. 500?700 W/(m?K)

Figure 52. >700 W/(m?K)

Figure 53. World Al-Diamond Composites Production Market Share by Thermal Conductivity (2021-2032)

Figure 54. World Al-Diamond Composites Production Value Market Share by Thermal Conductivity (2021-2032)

Figure 55. World Al-Diamond Composites Average Price by Thermal Conductivity (2021-2032) & (US\$/Pc)

Figure 56. World Al-Diamond Composites Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Al-Diamond Composites Production Value Market Share by Application in 2025

Figure 58. Semiconductors

Figure 59. Electronics

Figure 60. Aerospace

Figure 61. New Energy Vehicles

Figure 62. Robotics & Automation

Figure 63. Optical Communications

Figure 64. Others

Figure 65. World Al-Diamond Composites Production Market Share by Application (2021-2032)

Figure 66. World Al-Diamond Composites Production Value Market Share by Application (2021-2032)

Figure 67. World Al-Diamond Composites Average Price by Application (2021-2032) & (US\$/Pc)

Figure 68. Al-Diamond Composites Industry Chain

Figure 69. Al-Diamond Composites Procurement Model

Figure 70. Al-Diamond Composites Sales Model

Figure 71. Al-Diamond Composites Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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