

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

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Abstracts

The global Diamond/Al Composite 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 Diamond/Al composites reached 1.0596 million pieces, with an average selling price of \$120 per piece. The global annual production capacity for Diamond/Al composites stands at approximately 1.5 million pieces, with a gross margin of approximately 31.2%. Diamond/Al composite is an advanced multiphase material prepared through specific manufacturing processes; it utilizes highly thermally conductive diamond particles or fibers as the reinforcing phase, and lightweight aluminum (or aluminum alloy) known for its excellent thermal conductivity as the matrix phase. Its core design philosophy centers on leveraging the exceptionally high thermal conductivity of diamond in combination with the low density and superior processability of aluminum. This approach yields a high-performance composite material characterized by both high thermal conductivity (typically exceeding 400 W/m²K) and a tunable, low coefficient of thermal expansion. Primarily employed to address the heat dissipation challenges associated with high-power electronic components, it serves as a critical material for achieving efficient thermal management in electronic devices. The upstream raw materials for Diamond/Al composites include various forms of diamond materials, as well as aluminum and aluminum alloys. The midstream segment consists of Diamond/Al composite manufacturers, while the downstream market is primarily concentrated in industries such as semiconductors, electronics, and aerospace.

The market for Diamond/Al composites is currently at a critical juncture, transitioning from a phase of technological accumulation to one of industrialization. As a new generation of thermal management materials, these composites are gradually gaining

recognition in fields with stringent heat dissipation requirements?such as high-end electronic packaging, high-power semiconductor devices (e.g., IGBTs and laser diodes), and aerospace electronics?thanks to their exceptional properties, including high thermal conductivity and a low coefficient of thermal expansion. Currently, the market is dominated by a select few enterprises that possess core technologies for interface modification, with product development efforts focused on striking a balance between enhancing thermal efficiency and reducing production costs. Although the overall scale of application remains limited, the rapid expansion of industries such as 5G communications, new energy vehicles, and high-performance computing chips has created an increasingly urgent demand for high-performance thermal dissipation materials. This growing demand is fueling a continuous surge in R&D investment for Diamond/Al composites, accelerating their commercialization process, and underscoring their immense potential for future growth.

This report studies the global Diamond/Al Composite production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

Global Diamond/Al Composite production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Diamond/Al Composite 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 Diamond/Al Composite 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 Diamond/Al Composite Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond/Al Composite Market, Segmentation by Type:

Particulate-Reinforced

Fiber-Reinforced

Global Diamond/Al Composite Market, Segmentation by Matrix Alloy Composition:

Pure Aluminum Matrix

Aluminum Alloy Matrix

Global Diamond/Al Composite Market, Segmentation by Thermal Conductivity:

400?500 W/(m?K)

500?700 W/(m?K)

>700 W/(m?K)

Global Diamond/Al Composite 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 Diamond/Al Composite market?
2. What is the demand of the global Diamond/Al Composite market?
3. What is the year over year growth of the global Diamond/Al Composite market?

4. What is the production and production value of the global Diamond/Al Composite market?
5. Who are the key producers in the global Diamond/Al Composite market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Diamond/AI Composite Production Value by Manufacturer (2021-2026)
- 3.2 World Diamond/AI Composite Production by Manufacturer (2021-2026)
- 3.3 World Diamond/AI Composite Average Price by Manufacturer (2021-2026)
- 3.4 Diamond/AI Composite Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Diamond/AI Composite Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Diamond/AI Composite in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Diamond/AI Composite in 2025
- 3.6 Diamond/AI Composite Market: Overall Company Footprint Analysis
 - 3.6.1 Diamond/AI Composite Market: Region Footprint
 - 3.6.2 Diamond/AI Composite Market: Company Product Type Footprint
 - 3.6.3 Diamond/AI Composite 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: Diamond/AI Composite Production Value Comparison
 - 4.1.1 United States VS China: Diamond/AI Composite Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Diamond/AI Composite Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Diamond/AI Composite Production Comparison
 - 4.2.1 United States VS China: Diamond/AI Composite Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Diamond/AI Composite Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Diamond/AI Composite Consumption Comparison
 - 4.3.1 United States VS China: Diamond/AI Composite Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Diamond/AI Composite Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Diamond/AI Composite Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Diamond/Al Composite Manufacturers, Headquarters and Production Site (States, Country)

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

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

4.5 China Based Diamond/Al Composite Manufacturers and Market Share

4.5.1 China Based Diamond/Al Composite Manufacturers, Headquarters and Production Site (Province, Country)

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

5.1 World Diamond/Al Composite 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 Diamond/Al Composite Production by Type (2021-2032)

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

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

6 MARKET ANALYSIS BY MATRIX ALLOY COMPOSITION

6.1 World Diamond/Al Composite 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 Diamond/Al Composite Production by Matrix Alloy Composition (2021-2032)

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

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

7 MARKET ANALYSIS BY THERMAL CONDUCTIVITY

7.1 World Diamond/Al Composite 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 Diamond/Al Composite Production by Thermal Conductivity (2021-2032)

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

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

8 MARKET ANALYSIS BY APPLICATION

8.1 World Diamond/Al Composite 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 Diamond/Al Composite Production by Application (2021-2032)

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

8.3.3 World Diamond/Al Composite 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 Diamond/Al Composite Product and Services

9.1.4 Denka Diamond/Al Composite 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 Diamond/Al Composite Product and Services

9.2.4 Nano Materials International Corporation Diamond/Al Composite 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 Diamond/Al Composite Product and Services

9.3.4 THERMAL Diamond/Al Composite 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 Diamond/Al Composite Product and Services

9.4.4 Harbin Yisheng New Materials Technology Diamond/Al Composite 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 Diamond/AI Composite Product and Services

9.5.4 Grinm Metal Composites (Beijing) Technology Diamond/AI Composite 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 Diamond/AI Composite Product and Services

9.6.4 Guoji Diamond Diamond/AI Composite 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 Diamond/AI Composite Product and Services

9.7.4 Heatsink New Material Technology Diamond/AI Composite 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 Diamond/AI Composite Product and Services

9.8.4 Changzhou Tiger Electronic Technology Diamond/AI Composite 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 Diamond/AI Composite Product and Services

- 9.9.4 Xi'an Chuangzheng New Materials Diamond/Al Composite 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 Diamond/Al Composite Product and Services
 - 9.10.4 Changsha Saneway Electronic Materials Diamond/Al Composite 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 Diamond/Al Composite Product and Services
 - 9.11.4 ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY Diamond/Al Composite 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 Diamond/Al Composite Product and Services
 - 9.12.4 Hunan Core Synergy Technology Diamond/Al Composite 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 Diamond/Al Composite Product and Services
 - 9.13.4 Jiangsu Jingkun Technology Diamond/Al Composite 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 Diamond/Al Composite Product and Services
 - 9.14.4 Nanjing Realway New Material Technology Diamond/Al Composite 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 Diamond/Al Composite Industry Chain
- 10.2 Diamond/Al Composite Upstream Analysis
 - 10.2.1 Diamond/Al Composite Core Raw Materials
 - 10.2.2 Main Manufacturers of Diamond/Al Composite Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Diamond/Al Composite Production Mode
- 10.6 Diamond/Al Composite Procurement Model
- 10.7 Diamond/Al Composite Industry Sales Model and Sales Channels
 - 10.7.1 Diamond/Al Composite Sales Model
 - 10.7.2 Diamond/Al Composite 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 Diamond/AI Composite Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

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

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

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

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

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

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

Table 12. Diamond/AI Composite Major Market Trends

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

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

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

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

Table 17. Production Value Market Share of Key Diamond/AI Composite Producers in 2025

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

Table 19. Production Market Share of Key Diamond/AI Composite Producers in 2025

Table 20. World Diamond/AI Composite Average Price by Manufacturer (2021-2026) & (US\$/Pc)

Table 21. Global Diamond/AI Composite Company Evaluation Quadrant

Table 22. World Diamond/AI Composite Industry Rank of Major Manufacturers, Based

on Production Value in 2025

Table 23. Head Office and Diamond/Al Composite Production Site of Key Manufacturer

Table 24. Diamond/Al Composite Market: Company Product Type Footprint

Table 25. Diamond/Al Composite Market: Company Product Application Footprint

Table 26. Diamond/Al Composite Competitive Factors

Table 27. Diamond/Al Composite New Entrant and Capacity Expansion Plans

Table 28. Diamond/Al Composite Mergers & Acquisitions Activity

Table 29. United States VS China Diamond/Al Composite Production Value

Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Diamond/Al Composite Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Diamond/Al Composite Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Diamond/Al Composite Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Diamond/Al Composite Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Diamond/Al Composite Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Diamond/Al Composite Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Diamond/Al Composite Production Market Share (2021-2026)

Table 37. China Based Diamond/Al Composite Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Diamond/Al Composite Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Diamond/Al Composite Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Diamond/Al Composite Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Diamond/Al Composite Production Market Share (2021-2026)

Table 42. Rest of World Based Diamond/Al Composite Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Diamond/Al Composite Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Diamond/Al Composite Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Diamond/Al Composite Production Market Share (2021-2026)

Table 47. World Diamond/Al Composite Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Diamond/Al Composite Production by Type (2021-2026) & (K Pcs)

Table 49. World Diamond/Al Composite Production by Type (2027-2032) & (K Pcs)

Table 50. World Diamond/Al Composite Production Value by Type (2021-2026) & (USD Million)

Table 51. World Diamond/Al Composite Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World Diamond/Al Composite Production Value by Matrix Alloy Composition, (USD Million), 2021 & 2025 & 2032

Table 55. World Diamond/Al Composite Production by Matrix Alloy Composition (2021-2026) & (K Pcs)

Table 56. World Diamond/Al Composite Production by Matrix Alloy Composition (2027-2032) & (K Pcs)

Table 57. World Diamond/Al Composite Production Value by Matrix Alloy Composition (2021-2026) & (USD Million)

Table 58. World Diamond/Al Composite Production Value by Matrix Alloy Composition (2027-2032) & (USD Million)

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

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

Table 61. World Diamond/Al Composite Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Table 62. World Diamond/Al Composite Production by Thermal Conductivity (2021-2026) & (K Pcs)

Table 63. World Diamond/Al Composite Production by Thermal Conductivity (2027-2032) & (K Pcs)

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

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

Table 66. World Diamond/Al Composite Average Price by Thermal Conductivity

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

Table 67. World Diamond/Al Composite Average Price by Thermal Conductivity

(2027-2032) & (US\$/Pc)

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

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

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

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

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

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

Table 74. World Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 78. Denka Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 84. Nano Materials International Corporation Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 90. THERMAL Diamond/Al Composite 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 Diamond/AI Composite Product and Services

Table 96. Harbin Yisheng New Materials Technology Diamond/AI Composite 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 Diamond/AI Composite Product and Services

Table 102. Grinm Metal Composites (Beijing) Technology Diamond/AI Composite 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 Diamond/AI Composite Product and Services

Table 108. Guoji Diamond Diamond/AI Composite 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 Diamond/AI Composite Product and Services

Table 114. Heatsink New Material Technology Diamond/AI Composite 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 Diamond/Al Composite Product and Services

Table 120. Changzhou Tiger Electronic Technology Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 126. Xi'an Chuangzheng New Materials Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 132. Changsha Saneway Electronic Materials Diamond/Al Composite 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
Diamond/Al Composite Product and Services

Table 138. ANHUI SHANGXINJINGGONG NEW MATERIAL TECHNOLOGY
Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 144. Hunan Core Synergy Technology Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 150. Jiangsu Jingkun Technology Diamond/Al Composite 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 Diamond/Al Composite Product and Services

Table 156. Nanjing Realway New Material Technology Diamond/Al Composite 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 Diamond/Al Composite Upstream (Raw Materials)

Table 160. Global Diamond/Al Composite Typical Customers

Table 161. Diamond/Al Composite Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Diamond/Al Composite Picture

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

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

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

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

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

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

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

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

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

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

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

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

Figure 14. Diamond/Al Composite Market Drivers

Figure 15. Factors Affecting Demand

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 31. United States Based Manufacturers Diamond/Al Composite Production Market Share 2025

Figure 32. China Based Manufacturers Diamond/Al Composite Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Diamond/Al Composite Production Market Share 2025

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

Figure 35. World Diamond/Al Composite Production Value Market Share by Type in 2025

Figure 36. Particulate-Reinforced

Figure 37. Fiber-Reinforced

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

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

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

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

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

Figure 43. Pure Aluminum Matrix

Figure 44. Aluminum Alloy Matrix

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

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

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

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

Figure 49. World Diamond/Al Composite 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 Diamond/Al Composite Production Market Share by Thermal Conductivity (2021-2032)

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

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

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

Figure 57. World Diamond/Al Composite 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 Diamond/Al Composite Production Market Share by Application (2021-2032)

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

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

Figure 68. Diamond/Al Composite Industry Chain

Figure 69. Diamond/Al Composite Procurement Model

Figure 70. Diamond/Al Composite Sales Model

Figure 71. Diamond/Al Composite Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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