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Global Diamond/Aluminum High-Thermal-Conductivity Material Market Growth 2026-2032

https://marketpublishers.com/r/GED4A59D3C44EN.html
Date: October 2026
Pages: 136
Price: US$ 3,660.00 (Single User License)
ID: GED4A59D3C44EN

Abstracts

The global Diamond/Aluminum High-Thermal-Conductivity Material market size is predicted to grow from US$ 124 million in 2025 to US$ 175 million in 2032; it is expected to grow at a CAGR of 4.3% from 2026 to 2032.

In 2025, the global production of diamond/aluminum high?thermal?conductivity material reached 1,059,600 pieces, with an average selling price of 120 USD per piece. The global annual production capacity of this material is approximately 1.5 million pieces, and the gross margin is about 31.2%. Diamond/Aluminum High?Thermal?Conductivity Material is a metal?matrix composite material with aluminum (Al) as the matrix and diamond particles as the high?thermal?conductivity reinforcing phase. The core idea is to combine the extremely high thermal conductivity of diamond (single crystal can reach over 2000?W/(m·K), much higher than copper and aluminum) with the advantages of the aluminum matrix, such as low density and good workability. Through methods such as powder metallurgy, pressure infiltration, and spark plasma sintering, diamond particles are uniformly dispersed and firmly bonded in the aluminum matrix, thereby obtaining a type of thermal management material that features high thermal conductivity, adjustable coefficient of thermal expansion (matching that of chips and ceramic substrates), and lightweight characteristics. It is widely used in power devices such as IGBTs, high?power LEDs, electronic packaging, and aerospace applications with high heat dissipation requirements. The main technical challenge for this material lies in the influence of interfacial reaction products (such as Al?C?) between diamond and aluminum on interfacial thermal resistance and mechanical properties, which usually requires interfacial regulation through surface coating or alloying. The upstream raw materials for diamond/aluminum high?thermal?conductivity material include diamond materials, aluminum and aluminum alloys, etc. The midstream consists of manufacturers of this material, while the downstream mainly includes the

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semiconductor, electronics, and aerospace industries.

Currently, the market for diamond/aluminum high?thermal?conductivity material is in a phase of rapid development, with its application scope extending from traditional aerospace and military electronics to civil high?power heat dissipation scenarios such as new energy vehicles, 5G communications, and power semiconductors. As device integration and power density continue to rise, the demand for thermal management materials that combine high thermal conductivity, lightweight, and tunable coefficient of thermal expansion is becoming increasingly urgent, and this material has emerged as a key candidate due to its outstanding comprehensive properties. In terms of manufacturing, techniques such as powder metallurgy and pressure infiltration are gradually maturing, but challenges remain in controlling interfacial reactions, ensuring bonding strength, and achieving consistent batch?to?batch quality, which are critical for industrialization. These challenges have prompted stakeholders to focus on interfacial optimization strategies like surface coating and alloying. Upstream raw material supply is stable, while downstream demand is growing strongly, and the overall market ecosystem is rapidly taking shape. However, high?end products still rely on breakthroughs in core processes, and the competitive landscape is not yet fully settled, with technological iteration and cost optimization being the main directions for future competition.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Diamond/Aluminum High-Thermal-Conductivity Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Diamond/Aluminum High-Thermal-Conductivity Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an

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accelerating global Diamond/Aluminum High-Thermal-Conductivity Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Diamond/Aluminum High-Thermal-Conductivity Material and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Diamond/Aluminum High-Thermal-Conductivity Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Diamond/Aluminum High-Thermal-Conductivity Material market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

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)

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Segmentation by Application:

Semiconductors

Electronics

Aerospace

New Energy Vehicles

Robotics and Automation

Optical Communication

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

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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

Ningbo Thermal Technology

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Harbin Yisheng New Materials Technology

Grinm Metal Composites

Sinomach Diamond

Heatsink Group

Changzhou Tiger Electronic Technology

Xi'an Chuangzheng New Materials

Changsha Saneway Electronic Materials

AnHui SunKing Precision New Material Technology

Hunan Xinjuneng Technology

Jiangsu Jingkun Technology

Nanjing Ruiwei New Materials Technology

Jiangsu Caxus New Material

RHP-Technology

Hall Technology

Jiaxing Worldia Diamond Technology

Shenzhen Hengli Weiye Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Diamond/Aluminum High-Thermal-Conductivity Material market?

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What factors are driving Diamond/Aluminum High-Thermal-Conductivity Material market growth, globally and by region?

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

How do Diamond/Aluminum High-Thermal-Conductivity Material market opportunities vary by end market size?

How does Diamond/Aluminum High-Thermal-Conductivity Material break out by Type, by Application?

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

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Share by Matrix Alloy Composition (2021-2026)
2.3.3.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue and Market Share by Matrix Alloy Composition (2021-2026)
2.3.3.3 Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Matrix Alloy Composition (2021-2026)
2.4 Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales by Thermal Conductivity
2.4.4.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Thermal Conductivity (2021-2026)
2.4.4.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue and Market Share by Thermal Conductivity (2021-2026)
2.4.4.3 Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Thermal Conductivity (2021-2026)
2.5 Diamond/Aluminum High-Thermal-Conductivity Material 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 and Automation
2.5.6 Optical Communication
2.5.7 Others
2.5.8 Diamond/Aluminum High-Thermal-Conductivity Material Sales by Application
2.5.8.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Market Share by Application (2021-2026)
2.5.8.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue and Market Share by Application (2021-2026)
2.5.8.3 Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Breakdown Data by Company
3.1.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Annual Sales by

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Company (2021-2026)
3.1.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Company (2021-2026)
3.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Annual Revenue by Company (2021-2026)
3.2.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Company (2021-2026)
3.2.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Company (2021-2026)
3.3 Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Company
3.4 Key Manufacturers Diamond/Aluminum High-Thermal-Conductivity Material Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Diamond/Aluminum High-Thermal-Conductivity Material Product Location Distribution
3.4.2 Players Diamond/Aluminum High-Thermal-Conductivity Material 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 DIAMOND/ALUMINUM HIGH-THERMAL-CONDUCTIVITY MATERIAL BY GEOGRAPHIC REGION

4.1 World Historic Diamond/Aluminum High-Thermal-Conductivity Material Market Size by Geographic Region (2021-2026)
4.1.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Diamond/Aluminum High-Thermal-Conductivity Material Market Size by Country/Region (2021-2026)
4.2.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Annual Sales by Country/Region (2021-2026)
4.2.2 Global Diamond/Aluminum High-Thermal-Conductivity Material Annual Revenue by Country/Region (2021-2026)
4.3 Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales Growth

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4.4 APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales Growth
4.5 Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales Growth
4.6 Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales Growth

5 AMERICAS

5.1 Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country
  5.1.1 Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country (2021-2026)
  5.1.2 Americas Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Country (2021-2026)
5.2 Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026)
5.3 Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales by Region
  6.1.1 APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales by Region (2021-2026)
  6.1.2 APAC Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Region (2021-2026)
6.2 APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026)
6.3 APAC Diamond/Aluminum High-Thermal-Conductivity Material 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

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7 EUROPE

7.1 Europe Diamond/Aluminum High-Thermal-Conductivity Material by Country
7.1.1 Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country (2021-2026)
7.1.2 Europe Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Country (2021-2026)
7.2 Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026)
7.3 Europe Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material by Country
8.1.1 Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country (2021-2026)
8.1.2 Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Country (2021-2026)
8.2 Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026)
8.3 Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material 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

+357 96 030922
info@marketpublishers.com

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 Diamond/Aluminum High-Thermal-Conductivity Material
10.3 Manufacturing Process Analysis of Diamond/Aluminum High-Thermal-Conductivity Material
10.4 Industry Chain Structure of Diamond/Aluminum High-Thermal-Conductivity Material

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Diamond/Aluminum High-Thermal-Conductivity Material Distributors
11.3 Diamond/Aluminum High-Thermal-Conductivity Material Customer

12 WORLD FORECAST REVIEW FOR DIAMOND/ALUMINUM HIGH-THERMAL-CONDUCTIVITY MATERIAL BY GEOGRAPHIC REGION

12.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Market Size Forecast by Region
  12.1.1 Global Diamond/Aluminum High-Thermal-Conductivity Material Forecast by Region (2027-2032)
  12.1.2 Global Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Forecast by Type (2027-2032)
12.7 Global Diamond/Aluminum High-Thermal-Conductivity Material Forecast by Application (2027-2032)

+357 96 030922
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13 KEY PLAYERS ANALYSIS

13.1 Denka
13.1.1 Denka Company Information
13.1.2 Denka Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.1.3 Denka Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.2.3 Nano Materials International Corporation Diamond/Aluminum High-Thermal-Conductivity Material 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 Ningbo Thermal Technology
13.3.1 Ningbo Thermal Technology Company Information
13.3.2 Ningbo Thermal Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.3.3 Ningbo Thermal Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Ningbo Thermal Technology Main Business Overview
13.3.5 Ningbo Thermal Technology 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 Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.4.3 Harbin Yisheng New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material 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
13.5.1 Grinm Metal Composites Company Information
13.5.2 Grinm Metal Composites Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.5.3 Grinm Metal Composites Diamond/Aluminum High-Thermal-Conductivity

+357 96 030922
info@marketpublishers.com

Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Grinm Metal Composites Main Business Overview
13.5.5 Grinm Metal Composites Latest Developments
13.6 Sinomach Diamond
13.6.1 Sinomach Diamond Company Information
13.6.2 Sinomach Diamond Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.6.3 Sinomach Diamond Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Sinomach Diamond Main Business Overview
13.6.5 Sinomach Diamond Latest Developments
13.7 Heatsink Group
13.7.1 Heatsink Group Company Information
13.7.2 Heatsink Group Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.7.3 Heatsink Group Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Heatsink Group Main Business Overview
13.7.5 Heatsink Group Latest Developments
13.8 Changzhou Tiger Electronic Technology
13.8.1 Changzhou Tiger Electronic Technology Company Information
13.8.2 Changzhou Tiger Electronic Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.8.3 Changzhou Tiger Electronic Technology Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.9.3 Xi'an Chuangzheng New Materials Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications

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13.10.3 Changsha Saneway Electronic Materials Diamond/Aluminum High-Thermal-Conductivity Material 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 SunKing Precision New Material Technology
13.11.1 AnHui SunKing Precision New Material Technology Company Information
13.11.2 AnHui SunKing Precision New Material Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.11.3 AnHui SunKing Precision New Material Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 AnHui SunKing Precision New Material Technology Main Business Overview
13.11.5 AnHui SunKing Precision New Material Technology Latest Developments
13.12 Hunan Xinjuneng Technology
13.12.1 Hunan Xinjuneng Technology Company Information
13.12.2 Hunan Xinjuneng Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.12.3 Hunan Xinjuneng Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Hunan Xinjuneng Technology Main Business Overview
13.12.5 Hunan Xinjuneng Technology Latest Developments
13.13 Jiangsu Jingkun Technology
13.13.1 Jiangsu Jingkun Technology Company Information
13.13.2 Jiangsu Jingkun Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.13.3 Jiangsu Jingkun Technology Diamond/Aluminum High-Thermal-Conductivity Material 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 Ruiwei New Materials Technology
13.14.1 Nanjing Ruiwei New Materials Technology Company Information
13.14.2 Nanjing Ruiwei New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.14.3 Nanjing Ruiwei New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Nanjing Ruiwei New Materials Technology Main Business Overview
13.14.5 Nanjing Ruiwei New Materials Technology Latest Developments
13.15 Jiangsu Caxus New Material
13.15.1 Jiangsu Caxus New Material Company Information
13.15.2 Jiangsu Caxus New Material Diamond/Aluminum High-Thermal-Conductivity

+357 96 030922
info@marketpublishers.com

Material Product Portfolios and Specifications
13.15.3 Jiangsu Caxus New Material Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Jiangsu Caxus New Material Main Business Overview
13.15.5 Jiangsu Caxus New Material Latest Developments
13.16 RHP-Technology
13.16.1 RHP-Technology Company Information
13.16.2 RHP-Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.16.3 RHP-Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 RHP-Technology Main Business Overview
13.16.5 RHP-Technology Latest Developments
13.17 Hall Technology
13.17.1 Hall Technology Company Information
13.17.2 Hall Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.17.3 Hall Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 Hall Technology Main Business Overview
13.17.5 Hall Technology Latest Developments
13.18 Jiaxing Worldia Diamond Technology
13.18.1 Jiaxing Worldia Diamond Technology Company Information
13.18.2 Jiaxing Worldia Diamond Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.18.3 Jiaxing Worldia Diamond Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Jiaxing Worldia Diamond Technology Main Business Overview
13.18.5 Jiaxing Worldia Diamond Technology Latest Developments
13.19 Shenzhen Hengli Weiye Technology
13.19.1 Shenzhen Hengli Weiye Technology Company Information
13.19.2 Shenzhen Hengli Weiye Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
13.19.3 Shenzhen Hengli Weiye Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Shenzhen Hengli Weiye Technology Main Business Overview
13.19.5 Shenzhen Hengli Weiye Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Diamond/Aluminum High-Thermal-Conductivity Material Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026) & (K Pcs)
Table 6. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Type (2021-2026)
Table 7. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Type (2021-2026) & ($ million)
Table 8. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Type (2021-2026)
Table 9. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Type (2021-2026) & (US$/Pc)
Table 10. Major Players of Pure Aluminum Matrix
Table 11. Major Players of Aluminum Alloy Matrix
Table 12. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales by Matrix Alloy Composition (2021-2026) & (K Pcs)
Table 13. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Matrix Alloy Composition (2021-2026)
Table 14. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Matrix Alloy Composition (2021-2026) & ($ million)
Table 15. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Matrix Alloy Composition (2021-2026)
Table 16. Global Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales by Thermal Conductivity (2021-2026) & (K Pcs)
Table 21. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Thermal Conductivity (2021-2026)

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Table 22. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Thermal Conductivity (2021-2026) & ($ million)
Table 23. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Thermal Conductivity (2021-2026)
Table 24. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Thermal Conductivity (2021-2026) & (US$/Pc)
Table 25. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale by Application (2021-2026) & (K Pcs)
Table 26. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Market Share by Application (2021-2026)
Table 27. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Application (2021-2026) & ($ million)
Table 28. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Application (2021-2026)
Table 29. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Application (2021-2026) & (US$/Pc)
Table 30. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales by Company (2021-2026) & (K Pcs)
Table 31. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Company (2021-2026)
Table 32. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Company (2021-2026) & ($ millions)
Table 33. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Company (2021-2026)
Table 34. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Price by Company (2021-2026) & (US$/Pc)
Table 35. Key Manufacturers Diamond/Aluminum High-Thermal-Conductivity Material Producing Area Distribution and Sales Area
Table 36. Players Diamond/Aluminum High-Thermal-Conductivity Material Products Offered
Table 37. Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales by Geographic Region (2021-2026) & (K Pcs)
Table 41. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share Geographic Region (2021-2026)
Table 42. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by

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Geographic Region (2021-2026) & ($ millions)
Table 43. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country/Region (2021-2026) & (K Pcs)
Table 45. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Country/Region (2021-2026)
Table 46. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Country/Region (2021-2026) & ($ millions)
Table 47. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country (2021-2026) & (K Pcs)
Table 49. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Country (2021-2026)
Table 50. Americas Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Country (2021-2026) & ($ millions)
Table 51. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026) & (K Pcs)
Table 52. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales by Application (2021-2026) & (K Pcs)
Table 53. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales by Region (2021-2026) & (K Pcs)
Table 54. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Region (2021-2026)
Table 55. APAC Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Region (2021-2026) & ($ millions)
Table 56. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026) & (K Pcs)
Table 57. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales by Application (2021-2026) & (K Pcs)
Table 58. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country (2021-2026) & (K Pcs)
Table 59. Europe Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Country (2021-2026) & ($ millions)
Table 60. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026) & (K Pcs)
Table 61. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales by Application (2021-2026) & (K Pcs)

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Table 62. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales by Country (2021-2026) & (K Pcs)
Table 63. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales by Type (2021-2026) & (K Pcs)
Table 65. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales by Application (2021-2026) & (K Pcs)
Table 66. Key Market Drivers & Growth Opportunities of Diamond/Aluminum High-Thermal-Conductivity Material
Table 67. Key Market Challenges & Risks of Diamond/Aluminum High-Thermal-Conductivity Material
Table 68. Key Industry Trends of Diamond/Aluminum High-Thermal-Conductivity Material
Table 69. Diamond/Aluminum High-Thermal-Conductivity Material Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Diamond/Aluminum High-Thermal-Conductivity Material Distributors List
Table 72. Diamond/Aluminum High-Thermal-Conductivity Material Customer List
Table 73. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Forecast by Region (2027-2032) & (K Pcs)
Table 74. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Forecast by Region (2027-2032) & ($ millions)
Table 75. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales Forecast by Country (2027-2032) & (K Pcs)
Table 76. Americas Diamond/Aluminum High-Thermal-Conductivity Material Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 77. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales Forecast by Region (2027-2032) & (K Pcs)
Table 78. APAC Diamond/Aluminum High-Thermal-Conductivity Material Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 79. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales Forecast by Country (2027-2032) & (K Pcs)
Table 80. Europe Diamond/Aluminum High-Thermal-Conductivity Material Revenue Forecast by Country (2027-2032) & ($ millions)
Table 81. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales Forecast by Country (2027-2032) & (K Pcs)
Table 82. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales

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Forecast by Type (2027-2032) & (K Pcs)
Table 84. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Forecast by Type (2027-2032) & ($ millions)
Table 85. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Forecast by Application (2027-2032) & (K Pcs)
Table 86. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Forecast by Application (2027-2032) & ($ millions)
Table 87. Denka Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 88. Denka Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 89. Denka Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 90. Denka Main Business
Table 91. Denka Latest Developments
Table 92. Nano Materials International Corporation Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 93. Nano Materials International Corporation Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 94. Nano Materials International Corporation Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 95. Nano Materials International Corporation Main Business
Table 96. Nano Materials International Corporation Latest Developments
Table 97. Ningbo Thermal Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 98. Ningbo Thermal Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 99. Ningbo Thermal Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 100. Ningbo Thermal Technology Main Business
Table 101. Ningbo Thermal Technology Latest Developments
Table 102. Harbin Yisheng New Materials Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 103. Harbin Yisheng New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications

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Table 104. Harbin Yisheng New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 105. Harbin Yisheng New Materials Technology Main Business
Table 106. Harbin Yisheng New Materials Technology Latest Developments
Table 107. Grinm Metal Composites Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 108. Grinm Metal Composites Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 109. Grinm Metal Composites Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 110. Grinm Metal Composites Main Business
Table 111. Grinm Metal Composites Latest Developments
Table 112. Sinomach Diamond Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 113. Sinomach Diamond Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 114. Sinomach Diamond Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 115. Sinomach Diamond Main Business
Table 116. Sinomach Diamond Latest Developments
Table 117. Heatsink Group Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 118. Heatsink Group Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 119. Heatsink Group Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 120. Heatsink Group Main Business
Table 121. Heatsink Group Latest Developments
Table 122. Changzhou Tiger Electronic Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 123. Changzhou Tiger Electronic Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 124. Changzhou Tiger Electronic Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 125. Changzhou Tiger Electronic Technology Main Business

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Table 126. Changzhou Tiger Electronic Technology Latest Developments
Table 127. Xi'an Chuangzheng New Materials Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 128. Xi'an Chuangzheng New Materials Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 129. Xi'an Chuangzheng New Materials Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 130. Xi'an Chuangzheng New Materials Main Business
Table 131. Xi'an Chuangzheng New Materials Latest Developments
Table 132. Changsha Saneway Electronic Materials Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 133. Changsha Saneway Electronic Materials Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 134. Changsha Saneway Electronic Materials Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 135. Changsha Saneway Electronic Materials Main Business
Table 136. Changsha Saneway Electronic Materials Latest Developments
Table 137. AnHui SunKing Precision New Material Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 138. AnHui SunKing Precision New Material Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 139. AnHui SunKing Precision New Material Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 140. AnHui SunKing Precision New Material Technology Main Business
Table 141. AnHui SunKing Precision New Material Technology Latest Developments
Table 142. Hunan Xinjuneng Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 143. Hunan Xinjuneng Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 144. Hunan Xinjuneng Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 145. Hunan Xinjuneng Technology Main Business

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Table 146. Hunan Xinjuneng Technology Latest Developments
Table 147. Jiangsu Jingkun Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 148. Jiangsu Jingkun Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 149. Jiangsu Jingkun Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 150. Jiangsu Jingkun Technology Main Business
Table 151. Jiangsu Jingkun Technology Latest Developments
Table 152. Nanjing Ruiwei New Materials Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 153. Nanjing Ruiwei New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 154. Nanjing Ruiwei New Materials Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 155. Nanjing Ruiwei New Materials Technology Main Business
Table 156. Nanjing Ruiwei New Materials Technology Latest Developments
Table 157. Jiangsu Caxus New Material Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 158. Jiangsu Caxus New Material Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 159. Jiangsu Caxus New Material Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 160. Jiangsu Caxus New Material Main Business
Table 161. Jiangsu Caxus New Material Latest Developments
Table 162. RHP-Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 163. RHP-Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 164. RHP-Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 165. RHP-Technology Main Business
Table 166. RHP-Technology Latest Developments
Table 167. Hall Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors

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Table 168. Hall Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 169. Hall Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 170. Hall Technology Main Business
Table 171. Hall Technology Latest Developments
Table 172. Jiaxing Worldia Diamond Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 173. Jiaxing Worldia Diamond Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 174. Jiaxing Worldia Diamond Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 175. Jiaxing Worldia Diamond Technology Main Business
Table 176. Jiaxing Worldia Diamond Technology Latest Developments
Table 177. Shenzhen Hengli Weiye Technology Basic Information, Diamond/Aluminum High-Thermal-Conductivity Material Manufacturing Base, Sales Area and Its Competitors
Table 178. Shenzhen Hengli Weiye Technology Diamond/Aluminum High-Thermal-Conductivity Material Product Portfolios and Specifications
Table 179. Shenzhen Hengli Weiye Technology Diamond/Aluminum High-Thermal-Conductivity Material Sales (K Pcs), Revenue ($ Million), Price (US$/Pc) and Gross Margin (2021-2026)
Table 180. Shenzhen Hengli Weiye Technology Main Business
Table 181. Shenzhen Hengli Weiye Technology Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Diamond/Aluminum High-Thermal-Conductivity Material
Figure 2. Diamond/Aluminum High-Thermal-Conductivity Material Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Growth Rate 2021-2032 (K Pcs)
Figure 7. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Diamond/Aluminum High-Thermal-Conductivity Material Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Country/Region (2025)
Figure 10. Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Type in 2026
Figure 14. Global Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Matrix Alloy Composition in 2026
Figure 18. Global Diamond/Aluminum High-Thermal-Conductivity Material 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 Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Thermal Conductivity in 2026
Figure 23. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Thermal Conductivity (2021-2026)

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Figure 24. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in Semiconductors
Figure 25. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: Semiconductors (2021-2026) & (K Pcs)
Figure 26. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in Electronics
Figure 27. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: Electronics (2021-2026) & (K Pcs)
Figure 28. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in Aerospace
Figure 29. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: Aerospace (2021-2026) & (K Pcs)
Figure 30. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in New Energy Vehicles
Figure 31. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: New Energy Vehicles (2021-2026) & (K Pcs)
Figure 32. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in Robotics and Automation
Figure 33. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: Robotics and Automation (2021-2026) & (K Pcs)
Figure 34. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in Optical Communication
Figure 35. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: Optical Communication (2021-2026) & (K Pcs)
Figure 36. Diamond/Aluminum High-Thermal-Conductivity Material Consumed in Others
Figure 37. Global Diamond/Aluminum High-Thermal-Conductivity Material Market: Others (2021-2026) & (K Pcs)
Figure 38. Global Diamond/Aluminum High-Thermal-Conductivity Material Sale Market Share by Application (2025)
Figure 39. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Application in 2025
Figure 40. Diamond/Aluminum High-Thermal-Conductivity Material Sales by Company in 2025 (K Pcs)
Figure 41. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Company in 2025
Figure 42. Diamond/Aluminum High-Thermal-Conductivity Material Revenue by Company in 2025 ($ millions)
Figure 43. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Company in 2025

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Figure 44. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Geographic Region (2021-2026)
Figure 45. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Geographic Region in 2025
Figure 46. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales 2021-2026 (K Pcs)
Figure 47. Americas Diamond/Aluminum High-Thermal-Conductivity Material Revenue 2021-2026 ($ millions)
Figure 48. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales 2021-2026 (K Pcs)
Figure 49. APAC Diamond/Aluminum High-Thermal-Conductivity Material Revenue 2021-2026 ($ millions)
Figure 50. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales 2021-2026 (K Pcs)
Figure 51. Europe Diamond/Aluminum High-Thermal-Conductivity Material Revenue 2021-2026 ($ millions)
Figure 52. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales 2021-2026 (K Pcs)
Figure 53. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Revenue 2021-2026 ($ millions)
Figure 54. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Country in 2025
Figure 55. Americas Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Country (2021-2026)
Figure 56. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Type (2021-2026)
Figure 57. Americas Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Application (2021-2026)
Figure 58. United States Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 59. Canada Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 60. Mexico Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 61. Brazil Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 62. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Region in 2025
Figure 63. APAC Diamond/Aluminum High-Thermal-Conductivity Material Revenue

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Market Share by Region (2021-2026)
Figure 64. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Type (2021-2026)
Figure 65. APAC Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Application (2021-2026)
Figure 66. China Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 67. Japan Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 68. South Korea Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 69. Southeast Asia Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 70. India Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 71. Australia Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 72. China Taiwan Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 73. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Country in 2025
Figure 74. Europe Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share by Country (2021-2026)
Figure 75. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Type (2021-2026)
Figure 76. Europe Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Application (2021-2026)
Figure 77. Germany Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 78. France Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 79. UK Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 80. Italy Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 81. Russia Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 82. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Country (2021-2026)

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Figure 83. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Type (2021-2026)
Figure 84. Middle East & Africa Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share by Application (2021-2026)
Figure 85. Egypt Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 86. South Africa Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 87. Israel Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 88. Turkey Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 89. GCC Countries Diamond/Aluminum High-Thermal-Conductivity Material Revenue Growth 2021-2026 ($ millions)
Figure 90. Manufacturing Cost Structure Analysis of Diamond/Aluminum High-Thermal-Conductivity Material in 2026
Figure 91. Manufacturing Process Analysis of Diamond/Aluminum High-Thermal-Conductivity Material
Figure 92. Industry Chain Structure of Diamond/Aluminum High-Thermal-Conductivity Material
Figure 93. Channels of Distribution
Figure 94. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Forecast by Region (2027-2032)
Figure 95. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share Forecast by Region (2027-2032)
Figure 96. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share Forecast by Type (2027-2032)
Figure 97. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share Forecast by Type (2027-2032)
Figure 98. Global Diamond/Aluminum High-Thermal-Conductivity Material Sales Market Share Forecast by Application (2027-2032)
Figure 99. Global Diamond/Aluminum High-Thermal-Conductivity Material Revenue Market Share Forecast by Application (2027-2032)

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