

Global High Thermal Conductivity Diamond Aluminum Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G0BBDDE24187EN.html>

Date: June 2023

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G0BBDDE24187EN

Abstracts

The global High Thermal Conductivity Diamond Aluminum market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

High thermal conductivity diamond aluminum (HTCDA) is a composite material made by combining diamond particles with aluminum. It is a high-performance material known for its excellent thermal conductivity, high strength, and lightweight. HTCDA is usually prepared by mixing diamond particles with aluminum powder and then compacting the mixture under high pressure and temperature. The obtained material has a unique microstructure, consisting of diamond particles dispersed throughout the entire aluminum matrix. HTCDA has many ideal characteristics that make it useful in various applications. It has extremely high thermal conductivity, which makes it useful in applications where heat dissipation is crucial, such as in electronic devices and high-performance cooling systems. It also has high strength and stiffness, suitable for structural applications such as aerospace components and high-speed machinery.

This report studies the global High Thermal Conductivity Diamond Aluminum production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Thermal Conductivity Diamond Aluminum, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Thermal Conductivity Diamond Aluminum that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Thermal Conductivity Diamond Aluminum total production and demand, 2018-2029, (Tons)

Global High Thermal Conductivity Diamond Aluminum total production value, 2018-2029, (USD Million)

Global High Thermal Conductivity Diamond Aluminum production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global High Thermal Conductivity Diamond Aluminum consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: High Thermal Conductivity Diamond Aluminum domestic production, consumption, key domestic manufacturers and share

Global High Thermal Conductivity Diamond Aluminum production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global High Thermal Conductivity Diamond Aluminum production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global High Thermal Conductivity Diamond Aluminum production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global High Thermal Conductivity Diamond Aluminum 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 Materion Corporation, Sumitomo Electric Industries, Ltd., II-VI Incorporated, Crystalwise Technology Inc., Advanced Diamond Technologies, Inc., Element Six Limited, Fraunhofer-Gesellschaft, NanoDiamond Products Limited and MDC Vacuum Products, LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World High Thermal Conductivity Diamond Aluminum market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global High Thermal Conductivity Diamond Aluminum Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Thermal Conductivity Diamond Aluminum Market, Segmentation by Type

HTCDA Board

HTCDA Coating

HTCDA Powder

Global High Thermal Conductivity Diamond Aluminum Market, Segmentation by

Application

Electronics Industry

Aerospace Industry

Automotive Industry

Energy Industry

Medical Industry

Companies Profiled:

Materion Corporation

Sumitomo Electric Industries, Ltd.

II-VI Incorporated

Crystalwise Technology Inc.

Advanced Diamond Technologies, Inc.

Element Six Limited

Fraunhofer-Gesellschaft

NanoDiamond Products Limited

MDC Vacuum Products, LLC

Ray Techniques Ltd.

Crystallume Corporation

Diamond Materials GmbH

Henan Huanghe Whirlwind Co., Ltd.

Scio Diamond Technology Corporation

SP3 Diamond Technologies, Inc.

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

1.1 High Thermal Conductivity Diamond Aluminum Introduction

1.2 World High Thermal Conductivity Diamond Aluminum Supply & Forecast

1.2.1 World High Thermal Conductivity Diamond Aluminum Production Value (2018 & 2022 & 2029)

1.2.2 World High Thermal Conductivity Diamond Aluminum Production (2018-2029)

1.2.3 World High Thermal Conductivity Diamond Aluminum Pricing Trends (2018-2029)

1.3 World High Thermal Conductivity Diamond Aluminum Production by Region (Based on Production Site)

1.3.1 World High Thermal Conductivity Diamond Aluminum Production Value by Region (2018-2029)

1.3.2 World High Thermal Conductivity Diamond Aluminum Production by Region (2018-2029)

1.3.3 World High Thermal Conductivity Diamond Aluminum Average Price by Region (2018-2029)

1.3.4 North America High Thermal Conductivity Diamond Aluminum Production (2018-2029)

1.3.5 Europe High Thermal Conductivity Diamond Aluminum Production (2018-2029)

1.3.6 China High Thermal Conductivity Diamond Aluminum Production (2018-2029)

1.3.7 Japan High Thermal Conductivity Diamond Aluminum Production (2018-2029)

1.4 Market Drivers, Restraints and Trends

1.4.1 High Thermal Conductivity Diamond Aluminum Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 High Thermal Conductivity Diamond Aluminum Major Market Trends

1.5 Influence of COVID-19 and Russia-Ukraine War

1.5.1 Influence of COVID-19

1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

2.1 World High Thermal Conductivity Diamond Aluminum Demand (2018-2029)

2.2 World High Thermal Conductivity Diamond Aluminum Consumption by Region

2.2.1 World High Thermal Conductivity Diamond Aluminum Consumption by Region (2018-2023)

2.2.2 World High Thermal Conductivity Diamond Aluminum Consumption Forecast by

Region (2024-2029)

2.3 United States High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

2.4 China High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

2.5 Europe High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

2.6 Japan High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

2.7 South Korea High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

2.8 ASEAN High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

2.9 India High Thermal Conductivity Diamond Aluminum Consumption (2018-2029)

3 WORLD HIGH THERMAL CONDUCTIVITY DIAMOND ALUMINUM MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High Thermal Conductivity Diamond Aluminum Production Value by Manufacturer (2018-2023)

3.2 World High Thermal Conductivity Diamond Aluminum Production by Manufacturer (2018-2023)

3.3 World High Thermal Conductivity Diamond Aluminum Average Price by Manufacturer (2018-2023)

3.4 High Thermal Conductivity Diamond Aluminum Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High Thermal Conductivity Diamond Aluminum Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High Thermal Conductivity Diamond Aluminum in 2022

3.5.3 Global Concentration Ratios (CR8) for High Thermal Conductivity Diamond Aluminum in 2022

3.6 High Thermal Conductivity Diamond Aluminum Market: Overall Company Footprint Analysis

3.6.1 High Thermal Conductivity Diamond Aluminum Market: Region Footprint

3.6.2 High Thermal Conductivity Diamond Aluminum Market: Company Product Type Footprint

3.6.3 High Thermal Conductivity Diamond Aluminum 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: High Thermal Conductivity Diamond Aluminum Production Value Comparison

4.1.1 United States VS China: High Thermal Conductivity Diamond Aluminum Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: High Thermal Conductivity Diamond Aluminum Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: High Thermal Conductivity Diamond Aluminum Production Comparison

4.2.1 United States VS China: High Thermal Conductivity Diamond Aluminum Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: High Thermal Conductivity Diamond Aluminum Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: High Thermal Conductivity Diamond Aluminum Consumption Comparison

4.3.1 United States VS China: High Thermal Conductivity Diamond Aluminum Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: High Thermal Conductivity Diamond Aluminum Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based High Thermal Conductivity Diamond Aluminum Manufacturers and Market Share, 2018-2023

4.4.1 United States Based High Thermal Conductivity Diamond Aluminum Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value (2018-2023)

4.4.3 United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production (2018-2023)

4.5 China Based High Thermal Conductivity Diamond Aluminum Manufacturers and Market Share

4.5.1 China Based High Thermal Conductivity Diamond Aluminum Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value (2018-2023)

4.5.3 China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production (2018-2023)

4.6 Rest of World Based High Thermal Conductivity Diamond Aluminum Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based High Thermal Conductivity Diamond Aluminum Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World High Thermal Conductivity Diamond Aluminum Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 HTCDA Board

5.2.2 HTCDA Coating

5.2.3 HTCDA Powder

5.3 Market Segment by Type

5.3.1 World High Thermal Conductivity Diamond Aluminum Production by Type (2018-2029)

5.3.2 World High Thermal Conductivity Diamond Aluminum Production Value by Type (2018-2029)

5.3.3 World High Thermal Conductivity Diamond Aluminum Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World High Thermal Conductivity Diamond Aluminum Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Electronics Industry

6.2.2 Aerospace Industry

6.2.3 Automotive Industry

6.2.4 Energy Industry

6.2.5 Medical Industry

6.3 Market Segment by Application

6.3.1 World High Thermal Conductivity Diamond Aluminum Production by Application (2018-2029)

6.3.2 World High Thermal Conductivity Diamond Aluminum Production Value by

Application (2018-2029)

6.3.3 World High Thermal Conductivity Diamond Aluminum Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Materion Corporation

7.1.1 Materion Corporation Details

7.1.2 Materion Corporation Major Business

7.1.3 Materion Corporation High Thermal Conductivity Diamond Aluminum Product and Services

7.1.4 Materion Corporation High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Materion Corporation Recent Developments/Updates

7.1.6 Materion Corporation Competitive Strengths & Weaknesses

7.2 Sumitomo Electric Industries, Ltd.

7.2.1 Sumitomo Electric Industries, Ltd. Details

7.2.2 Sumitomo Electric Industries, Ltd. Major Business

7.2.3 Sumitomo Electric Industries, Ltd. High Thermal Conductivity Diamond Aluminum Product and Services

7.2.4 Sumitomo Electric Industries, Ltd. High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Sumitomo Electric Industries, Ltd. Recent Developments/Updates

7.2.6 Sumitomo Electric Industries, Ltd. Competitive Strengths & Weaknesses

7.3 II-VI Incorporated

7.3.1 II-VI Incorporated Details

7.3.2 II-VI Incorporated Major Business

7.3.3 II-VI Incorporated High Thermal Conductivity Diamond Aluminum Product and Services

7.3.4 II-VI Incorporated High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 II-VI Incorporated Recent Developments/Updates

7.3.6 II-VI Incorporated Competitive Strengths & Weaknesses

7.4 Crystalwise Technology Inc.

7.4.1 Crystalwise Technology Inc. Details

7.4.2 Crystalwise Technology Inc. Major Business

7.4.3 Crystalwise Technology Inc. High Thermal Conductivity Diamond Aluminum Product and Services

7.4.4 Crystalwise Technology Inc. High Thermal Conductivity Diamond Aluminum

Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Crystalwise Technology Inc. Recent Developments/Updates

7.4.6 Crystalwise Technology Inc. Competitive Strengths & Weaknesses

7.5 Advanced Diamond Technologies, Inc.

7.5.1 Advanced Diamond Technologies, Inc. Details

7.5.2 Advanced Diamond Technologies, Inc. Major Business

7.5.3 Advanced Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Product and Services

7.5.4 Advanced Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Advanced Diamond Technologies, Inc. Recent Developments/Updates

7.5.6 Advanced Diamond Technologies, Inc. Competitive Strengths & Weaknesses

7.6 Element Six Limited

7.6.1 Element Six Limited Details

7.6.2 Element Six Limited Major Business

7.6.3 Element Six Limited High Thermal Conductivity Diamond Aluminum Product and Services

7.6.4 Element Six Limited High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 Element Six Limited Recent Developments/Updates

7.6.6 Element Six Limited Competitive Strengths & Weaknesses

7.7 Fraunhofer-Gesellschaft

7.7.1 Fraunhofer-Gesellschaft Details

7.7.2 Fraunhofer-Gesellschaft Major Business

7.7.3 Fraunhofer-Gesellschaft High Thermal Conductivity Diamond Aluminum Product and Services

7.7.4 Fraunhofer-Gesellschaft High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.7.5 Fraunhofer-Gesellschaft Recent Developments/Updates

7.7.6 Fraunhofer-Gesellschaft Competitive Strengths & Weaknesses

7.8 NanoDiamond Products Limited

7.8.1 NanoDiamond Products Limited Details

7.8.2 NanoDiamond Products Limited Major Business

7.8.3 NanoDiamond Products Limited High Thermal Conductivity Diamond Aluminum Product and Services

7.8.4 NanoDiamond Products Limited High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 NanoDiamond Products Limited Recent Developments/Updates

7.8.6 NanoDiamond Products Limited Competitive Strengths & Weaknesses

7.9 MDC Vacuum Products, LLC

7.9.1 MDC Vacuum Products, LLC Details

7.9.2 MDC Vacuum Products, LLC Major Business

7.9.3 MDC Vacuum Products, LLC High Thermal Conductivity Diamond Aluminum Product and Services

7.9.4 MDC Vacuum Products, LLC High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.9.5 MDC Vacuum Products, LLC Recent Developments/Updates

7.9.6 MDC Vacuum Products, LLC Competitive Strengths & Weaknesses

7.10 Ray Techniques Ltd.

7.10.1 Ray Techniques Ltd. Details

7.10.2 Ray Techniques Ltd. Major Business

7.10.3 Ray Techniques Ltd. High Thermal Conductivity Diamond Aluminum Product and Services

7.10.4 Ray Techniques Ltd. High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 Ray Techniques Ltd. Recent Developments/Updates

7.10.6 Ray Techniques Ltd. Competitive Strengths & Weaknesses

7.11 Crystallume Corporation

7.11.1 Crystallume Corporation Details

7.11.2 Crystallume Corporation Major Business

7.11.3 Crystallume Corporation High Thermal Conductivity Diamond Aluminum Product and Services

7.11.4 Crystallume Corporation High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.11.5 Crystallume Corporation Recent Developments/Updates

7.11.6 Crystallume Corporation Competitive Strengths & Weaknesses

7.12 Diamond Materials GmbH

7.12.1 Diamond Materials GmbH Details

7.12.2 Diamond Materials GmbH Major Business

7.12.3 Diamond Materials GmbH High Thermal Conductivity Diamond Aluminum Product and Services

7.12.4 Diamond Materials GmbH High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.12.5 Diamond Materials GmbH Recent Developments/Updates

7.12.6 Diamond Materials GmbH Competitive Strengths & Weaknesses

7.13 Henan Huanghe Whirlwind Co., Ltd.

7.13.1 Henan Huanghe Whirlwind Co., Ltd. Details

7.13.2 Henan Huanghe Whirlwind Co., Ltd. Major Business

7.13.3 Henan Huanghe Whirlwind Co., Ltd. High Thermal Conductivity Diamond Aluminum Product and Services

7.13.4 Henan Huanghe Whirlwind Co., Ltd. High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.13.5 Henan Huanghe Whirlwind Co., Ltd. Recent Developments/Updates

7.13.6 Henan Huanghe Whirlwind Co., Ltd. Competitive Strengths & Weaknesses
7.14 Scio Diamond Technology Corporation

7.14.1 Scio Diamond Technology Corporation Details

7.14.2 Scio Diamond Technology Corporation Major Business

7.14.3 Scio Diamond Technology Corporation High Thermal Conductivity Diamond Aluminum Product and Services

7.14.4 Scio Diamond Technology Corporation High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.14.5 Scio Diamond Technology Corporation Recent Developments/Updates

7.14.6 Scio Diamond Technology Corporation Competitive Strengths & Weaknesses
7.15 SP3 Diamond Technologies, Inc.

7.15.1 SP3 Diamond Technologies, Inc. Details

7.15.2 SP3 Diamond Technologies, Inc. Major Business

7.15.3 SP3 Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Product and Services

7.15.4 SP3 Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 SP3 Diamond Technologies, Inc. Recent Developments/Updates

7.15.6 SP3 Diamond Technologies, Inc. Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 High Thermal Conductivity Diamond Aluminum Industry Chain

8.2 High Thermal Conductivity Diamond Aluminum Upstream Analysis

8.2.1 High Thermal Conductivity Diamond Aluminum Core Raw Materials

8.2.2 Main Manufacturers of High Thermal Conductivity Diamond Aluminum Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 High Thermal Conductivity Diamond Aluminum Production Mode

8.6 High Thermal Conductivity Diamond Aluminum Procurement Model

8.7 High Thermal Conductivity Diamond Aluminum Industry Sales Model and Sales Channels

8.7.1 High Thermal Conductivity Diamond Aluminum Sales Model

8.7.2 High Thermal Conductivity Diamond Aluminum Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High Thermal Conductivity Diamond Aluminum Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World High Thermal Conductivity Diamond Aluminum Production Value by Region (2018-2023) & (USD Million)

Table 3. World High Thermal Conductivity Diamond Aluminum Production Value by Region (2024-2029) & (USD Million)

Table 4. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Region (2018-2023)

Table 5. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Region (2024-2029)

Table 6. World High Thermal Conductivity Diamond Aluminum Production by Region (2018-2023) & (Tons)

Table 7. World High Thermal Conductivity Diamond Aluminum Production by Region (2024-2029) & (Tons)

Table 8. World High Thermal Conductivity Diamond Aluminum Production Market Share by Region (2018-2023)

Table 9. World High Thermal Conductivity Diamond Aluminum Production Market Share by Region (2024-2029)

Table 10. World High Thermal Conductivity Diamond Aluminum Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World High Thermal Conductivity Diamond Aluminum Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. High Thermal Conductivity Diamond Aluminum Major Market Trends

Table 13. World High Thermal Conductivity Diamond Aluminum Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World High Thermal Conductivity Diamond Aluminum Consumption by Region (2018-2023) & (Tons)

Table 15. World High Thermal Conductivity Diamond Aluminum Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World High Thermal Conductivity Diamond Aluminum Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key High Thermal Conductivity Diamond Aluminum Producers in 2022

Table 18. World High Thermal Conductivity Diamond Aluminum Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key High Thermal Conductivity Diamond Aluminum Producers in 2022

Table 20. World High Thermal Conductivity Diamond Aluminum Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 21. Global High Thermal Conductivity Diamond Aluminum Company Evaluation Quadrant

Table 22. World High Thermal Conductivity Diamond Aluminum Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and High Thermal Conductivity Diamond Aluminum Production Site of Key Manufacturer

Table 24. High Thermal Conductivity Diamond Aluminum Market: Company Product Type Footprint

Table 25. High Thermal Conductivity Diamond Aluminum Market: Company Product Application Footprint

Table 26. High Thermal Conductivity Diamond Aluminum Competitive Factors

Table 27. High Thermal Conductivity Diamond Aluminum New Entrant and Capacity Expansion Plans

Table 28. High Thermal Conductivity Diamond Aluminum Mergers & Acquisitions Activity

Table 29. United States VS China High Thermal Conductivity Diamond Aluminum Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China High Thermal Conductivity Diamond Aluminum Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China High Thermal Conductivity Diamond Aluminum Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based High Thermal Conductivity Diamond Aluminum Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Market Share (2018-2023)

Table 37. China Based High Thermal Conductivity Diamond Aluminum Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production (2018-2023) & (Tons)

Table 41. China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Market Share (2018-2023)

Table 42. Rest of World Based High Thermal Conductivity Diamond Aluminum Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Market Share (2018-2023)

Table 47. World High Thermal Conductivity Diamond Aluminum Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World High Thermal Conductivity Diamond Aluminum Production by Type (2018-2023) & (Tons)

Table 49. World High Thermal Conductivity Diamond Aluminum Production by Type (2024-2029) & (Tons)

Table 50. World High Thermal Conductivity Diamond Aluminum Production Value by Type (2018-2023) & (USD Million)

Table 51. World High Thermal Conductivity Diamond Aluminum Production Value by Type (2024-2029) & (USD Million)

Table 52. World High Thermal Conductivity Diamond Aluminum Average Price by Type (2018-2023) & (US\$/Ton)

Table 53. World High Thermal Conductivity Diamond Aluminum Average Price by Type (2024-2029) & (US\$/Ton)

Table 54. World High Thermal Conductivity Diamond Aluminum Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World High Thermal Conductivity Diamond Aluminum Production by Application (2018-2023) & (Tons)

Table 56. World High Thermal Conductivity Diamond Aluminum Production by Application (2024-2029) & (Tons)

Table 57. World High Thermal Conductivity Diamond Aluminum Production Value by Application (2018-2023) & (USD Million)

Table 58. World High Thermal Conductivity Diamond Aluminum Production Value by

Application (2024-2029) & (USD Million)

Table 59. World High Thermal Conductivity Diamond Aluminum Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World High Thermal Conductivity Diamond Aluminum Average Price by Application (2024-2029) & (US\$/Ton)

Table 61. Materion Corporation Basic Information, Manufacturing Base and Competitors

Table 62. Materion Corporation Major Business

Table 63. Materion Corporation High Thermal Conductivity Diamond Aluminum Product and Services

Table 64. Materion Corporation High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Materion Corporation Recent Developments/Updates

Table 66. Materion Corporation Competitive Strengths & Weaknesses

Table 67. Sumitomo Electric Industries, Ltd. Basic Information, Manufacturing Base and Competitors

Table 68. Sumitomo Electric Industries, Ltd. Major Business

Table 69. Sumitomo Electric Industries, Ltd. High Thermal Conductivity Diamond Aluminum Product and Services

Table 70. Sumitomo Electric Industries, Ltd. High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Sumitomo Electric Industries, Ltd. Recent Developments/Updates

Table 72. Sumitomo Electric Industries, Ltd. Competitive Strengths & Weaknesses

Table 73. II-VI Incorporated Basic Information, Manufacturing Base and Competitors

Table 74. II-VI Incorporated Major Business

Table 75. II-VI Incorporated High Thermal Conductivity Diamond Aluminum Product and Services

Table 76. II-VI Incorporated High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. II-VI Incorporated Recent Developments/Updates

Table 78. II-VI Incorporated Competitive Strengths & Weaknesses

Table 79. Crystalwise Technology Inc. Basic Information, Manufacturing Base and Competitors

Table 80. Crystalwise Technology Inc. Major Business

Table 81. Crystalwise Technology Inc. High Thermal Conductivity Diamond Aluminum Product and Services

Table 82. Crystalwise Technology Inc. High Thermal Conductivity Diamond Aluminum

Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Crystalwise Technology Inc. Recent Developments/Updates

Table 84. Crystalwise Technology Inc. Competitive Strengths & Weaknesses

Table 85. Advanced Diamond Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 86. Advanced Diamond Technologies, Inc. Major Business

Table 87. Advanced Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Product and Services

Table 88. Advanced Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Advanced Diamond Technologies, Inc. Recent Developments/Updates

Table 90. Advanced Diamond Technologies, Inc. Competitive Strengths & Weaknesses

Table 91. Element Six Limited Basic Information, Manufacturing Base and Competitors

Table 92. Element Six Limited Major Business

Table 93. Element Six Limited High Thermal Conductivity Diamond Aluminum Product and Services

Table 94. Element Six Limited High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Element Six Limited Recent Developments/Updates

Table 96. Element Six Limited Competitive Strengths & Weaknesses

Table 97. Fraunhofer-Gesellschaft Basic Information, Manufacturing Base and Competitors

Table 98. Fraunhofer-Gesellschaft Major Business

Table 99. Fraunhofer-Gesellschaft High Thermal Conductivity Diamond Aluminum Product and Services

Table 100. Fraunhofer-Gesellschaft High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. Fraunhofer-Gesellschaft Recent Developments/Updates

Table 102. Fraunhofer-Gesellschaft Competitive Strengths & Weaknesses

Table 103. NanoDiamond Products Limited Basic Information, Manufacturing Base and Competitors

Table 104. NanoDiamond Products Limited Major Business

Table 105. NanoDiamond Products Limited High Thermal Conductivity Diamond Aluminum Product and Services

Table 106. NanoDiamond Products Limited High Thermal Conductivity Diamond

Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. NanoDiamond Products Limited Recent Developments/Updates

Table 108. NanoDiamond Products Limited Competitive Strengths & Weaknesses

Table 109. MDC Vacuum Products, LLC Basic Information, Manufacturing Base and Competitors

Table 110. MDC Vacuum Products, LLC Major Business

Table 111. MDC Vacuum Products, LLC High Thermal Conductivity Diamond Aluminum Product and Services

Table 112. MDC Vacuum Products, LLC High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. MDC Vacuum Products, LLC Recent Developments/Updates

Table 114. MDC Vacuum Products, LLC Competitive Strengths & Weaknesses

Table 115. Ray Techniques Ltd. Basic Information, Manufacturing Base and Competitors

Table 116. Ray Techniques Ltd. Major Business

Table 117. Ray Techniques Ltd. High Thermal Conductivity Diamond Aluminum Product and Services

Table 118. Ray Techniques Ltd. High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. Ray Techniques Ltd. Recent Developments/Updates

Table 120. Ray Techniques Ltd. Competitive Strengths & Weaknesses

Table 121. Crystallume Corporation Basic Information, Manufacturing Base and Competitors

Table 122. Crystallume Corporation Major Business

Table 123. Crystallume Corporation High Thermal Conductivity Diamond Aluminum Product and Services

Table 124. Crystallume Corporation High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Crystallume Corporation Recent Developments/Updates

Table 126. Crystallume Corporation Competitive Strengths & Weaknesses

Table 127. Diamond Materials GmbH Basic Information, Manufacturing Base and Competitors

Table 128. Diamond Materials GmbH Major Business

Table 129. Diamond Materials GmbH High Thermal Conductivity Diamond Aluminum Product and Services

Table 130. Diamond Materials GmbH High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Diamond Materials GmbH Recent Developments/Updates

Table 132. Diamond Materials GmbH Competitive Strengths & Weaknesses

Table 133. Henan Huanghe Whirlwind Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 134. Henan Huanghe Whirlwind Co., Ltd. Major Business

Table 135. Henan Huanghe Whirlwind Co., Ltd. High Thermal Conductivity Diamond Aluminum Product and Services

Table 136. Henan Huanghe Whirlwind Co., Ltd. High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Henan Huanghe Whirlwind Co., Ltd. Recent Developments/Updates

Table 138. Henan Huanghe Whirlwind Co., Ltd. Competitive Strengths & Weaknesses

Table 139. Scio Diamond Technology Corporation Basic Information, Manufacturing Base and Competitors

Table 140. Scio Diamond Technology Corporation Major Business

Table 141. Scio Diamond Technology Corporation High Thermal Conductivity Diamond Aluminum Product and Services

Table 142. Scio Diamond Technology Corporation High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Scio Diamond Technology Corporation Recent Developments/Updates

Table 144. SP3 Diamond Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 145. SP3 Diamond Technologies, Inc. Major Business

Table 146. SP3 Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Product and Services

Table 147. SP3 Diamond Technologies, Inc. High Thermal Conductivity Diamond Aluminum Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of High Thermal Conductivity Diamond Aluminum Upstream (Raw Materials)

Table 149. High Thermal Conductivity Diamond Aluminum Typical Customers

Table 150. High Thermal Conductivity Diamond Aluminum Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High Thermal Conductivity Diamond Aluminum Picture

Figure 2. World High Thermal Conductivity Diamond Aluminum Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World High Thermal Conductivity Diamond Aluminum Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World High Thermal Conductivity Diamond Aluminum Production (2018-2029) & (Tons)

Figure 5. World High Thermal Conductivity Diamond Aluminum Average Price (2018-2029) & (US\$/Ton)

Figure 6. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Region (2018-2029)

Figure 7. World High Thermal Conductivity Diamond Aluminum Production Market Share by Region (2018-2029)

Figure 8. North America High Thermal Conductivity Diamond Aluminum Production (2018-2029) & (Tons)

Figure 9. Europe High Thermal Conductivity Diamond Aluminum Production (2018-2029) & (Tons)

Figure 10. China High Thermal Conductivity Diamond Aluminum Production (2018-2029) & (Tons)

Figure 11. Japan High Thermal Conductivity Diamond Aluminum Production (2018-2029) & (Tons)

Figure 12. High Thermal Conductivity Diamond Aluminum Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 15. World High Thermal Conductivity Diamond Aluminum Consumption Market Share by Region (2018-2029)

Figure 16. United States High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 17. China High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 18. Europe High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 19. Japan High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 20. South Korea High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 21. ASEAN High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 22. India High Thermal Conductivity Diamond Aluminum Consumption (2018-2029) & (Tons)

Figure 23. Producer Shipments of High Thermal Conductivity Diamond Aluminum by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for High Thermal Conductivity Diamond Aluminum Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for High Thermal Conductivity Diamond Aluminum Markets in 2022

Figure 26. United States VS China: High Thermal Conductivity Diamond Aluminum Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: High Thermal Conductivity Diamond Aluminum Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: High Thermal Conductivity Diamond Aluminum Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Market Share 2022

Figure 30. China Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Market Share 2022

Figure 31. Rest of World Based Manufacturers High Thermal Conductivity Diamond Aluminum Production Market Share 2022

Figure 32. World High Thermal Conductivity Diamond Aluminum Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Type in 2022

Figure 34. HTCDA Board

Figure 35. HTCDA Coating

Figure 36. HTCDA Powder

Figure 37. World High Thermal Conductivity Diamond Aluminum Production Market Share by Type (2018-2029)

Figure 38. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Type (2018-2029)

Figure 39. World High Thermal Conductivity Diamond Aluminum Average Price by Type (2018-2029) & (US\$/Ton)

Figure 40. World High Thermal Conductivity Diamond Aluminum Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Application in 2022

Figure 42. Electronics Industry

Figure 43. Aerospace Industry

Figure 44. Automotive Industry

Figure 45. Energy Industry

Figure 46. Medical Industry

Figure 47. World High Thermal Conductivity Diamond Aluminum Production Market Share by Application (2018-2029)

Figure 48. World High Thermal Conductivity Diamond Aluminum Production Value Market Share by Application (2018-2029)

Figure 49. World High Thermal Conductivity Diamond Aluminum Average Price by Application (2018-2029) & (US\$/Ton)

Figure 50. High Thermal Conductivity Diamond Aluminum Industry Chain

Figure 51. High Thermal Conductivity Diamond Aluminum Procurement Model

Figure 52. High Thermal Conductivity Diamond Aluminum Sales Model

Figure 53. High Thermal Conductivity Diamond Aluminum Sales Channels, Direct Sales, and Distribution

Figure 54. Methodology

Figure 55. Research Process and Data Source

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