

# Global CVD Lab Grown Rough Diamonds Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global CVD Lab Grown Rough Diamonds market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

CVD Lab Grown Rough Diamonds, also known as Chemical Vapor Deposition lab-grown rough diamonds, are synthetic diamonds created using the Chemical Vapor Deposition (CVD) method. In the CVD process, a small natural or synthetic diamond seed crystal is placed in a vacuum chamber. The chamber is then filled with a mixture of gases, typically methane and hydrogen. When the gases are heated to high temperatures and exposed to a microwave plasma or other energy source, carbon atoms are released from the methane gas. These carbon atoms adhere to the seed crystal and gradually form a rough diamond. The process continues until the desired size and quality of the rough diamond is achieved.

This method involves the growth of diamond crystals in a controlled laboratory environment. CVD is one of the primary techniques for producing lab-grown diamonds, and it has gained popularity in the gem and jewelry industry. CVD lab-grown diamonds can be produced with a high degree of purity and quality. They have the same carbon crystal structure as natural diamonds, making them virtually indistinguishable from mined diamonds in terms of chemical composition and physical properties.

CVD lab-grown rough diamonds are a significant advancement in the diamond industry, offering consumers a responsible and sustainable choice without compromising on the quality and beauty of the gemstone. They are becoming increasingly popular and widely available in the jewelry market.

This report studies the global CVD Lab Grown Rough Diamonds production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CVD Lab Grown Rough Diamonds, 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 CVD Lab Grown Rough Diamonds that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CVD Lab Grown Rough Diamonds total production and demand, 2018-2029, (Tons)

Global CVD Lab Grown Rough Diamonds total production value, 2018-2029, (USD Million)

Global CVD Lab Grown Rough Diamonds production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global CVD Lab Grown Rough Diamonds consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: CVD Lab Grown Rough Diamonds domestic production, consumption, key domestic manufacturers and share

Global CVD Lab Grown Rough Diamonds production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global CVD Lab Grown Rough Diamonds production by Clarity, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global CVD Lab Grown Rough Diamonds production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global CVD Lab Grown Rough Diamonds 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 Element Six (De Beers), Adamas One, Washington Diamonds, Creative Technologies, Diamond Elements, Shanghai

Zhengshi Technology, Green Rocks Diamonds, Hangzhou Chaoran and Lusix, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World CVD Lab Grown Rough Diamonds 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 Clarity, 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 CVD Lab Grown Rough Diamonds Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CVD Lab Grown Rough Diamonds Market, Segmentation by Clarity

VVS

VS

SI

Others

## Global CVD Lab Grown Rough Diamonds Market, Segmentation by Application

Gemstone

Industrial Applications

### Companies Profiled:

Element Six (De Beers)

Adamas One

Washington Diamonds

Creative Technologies

Diamond Elements

Shanghai Zhengshi Technology

Green Rocks Diamonds

Hangzhou Chaoran

Lusix

Ningbo Crysdiem Industrial Technology

### Key Questions Answered

1. How big is the global CVD Lab Grown Rough Diamonds market?
2. What is the demand of the global CVD Lab Grown Rough Diamonds market?
3. What is the year over year growth of the global CVD Lab Grown Rough Diamonds market?
4. What is the production and production value of the global CVD Lab Grown Rough Diamonds market?
5. Who are the key producers in the global CVD Lab Grown Rough Diamonds market?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 CVD Lab Grown Rough Diamonds Introduction
- 1.2 World CVD Lab Grown Rough Diamonds Supply & Forecast
  - 1.2.1 World CVD Lab Grown Rough Diamonds Production Value (2018 & 2022 & 2029)
  - 1.2.2 World CVD Lab Grown Rough Diamonds Production (2018-2029)
  - 1.2.3 World CVD Lab Grown Rough Diamonds Pricing Trends (2018-2029)
- 1.3 World CVD Lab Grown Rough Diamonds Production by Region (Based on Production Site)
  - 1.3.1 World CVD Lab Grown Rough Diamonds Production Value by Region (2018-2029)
  - 1.3.2 World CVD Lab Grown Rough Diamonds Production by Region (2018-2029)
  - 1.3.3 World CVD Lab Grown Rough Diamonds Average Price by Region (2018-2029)
  - 1.3.4 North America CVD Lab Grown Rough Diamonds Production (2018-2029)
  - 1.3.5 Europe CVD Lab Grown Rough Diamonds Production (2018-2029)
  - 1.3.6 China CVD Lab Grown Rough Diamonds Production (2018-2029)
  - 1.3.7 Japan CVD Lab Grown Rough Diamonds Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 CVD Lab Grown Rough Diamonds Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 CVD Lab Grown Rough Diamonds Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World CVD Lab Grown Rough Diamonds Demand (2018-2029)
- 2.2 World CVD Lab Grown Rough Diamonds Consumption by Region
  - 2.2.1 World CVD Lab Grown Rough Diamonds Consumption by Region (2018-2023)
  - 2.2.2 World CVD Lab Grown Rough Diamonds Consumption Forecast by Region (2024-2029)
- 2.3 United States CVD Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.4 China CVD Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.5 Europe CVD Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.6 Japan CVD Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.7 South Korea CVD Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.8 ASEAN CVD Lab Grown Rough Diamonds Consumption (2018-2029)
- 2.9 India CVD Lab Grown Rough Diamonds Consumption (2018-2029)

### **3 WORLD CVD LAB GROWN ROUGH DIAMONDS MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World CVD Lab Grown Rough Diamonds Production Value by Manufacturer (2018-2023)

3.2 World CVD Lab Grown Rough Diamonds Production by Manufacturer (2018-2023)

3.3 World CVD Lab Grown Rough Diamonds Average Price by Manufacturer (2018-2023)

3.4 CVD Lab Grown Rough Diamonds Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global CVD Lab Grown Rough Diamonds Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for CVD Lab Grown Rough Diamonds in 2022

3.5.3 Global Concentration Ratios (CR8) for CVD Lab Grown Rough Diamonds in 2022

3.6 CVD Lab Grown Rough Diamonds Market: Overall Company Footprint Analysis

3.6.1 CVD Lab Grown Rough Diamonds Market: Region Footprint

3.6.2 CVD Lab Grown Rough Diamonds Market: Company Product Type Footprint

3.6.3 CVD Lab Grown Rough Diamonds 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: CVD Lab Grown Rough Diamonds Production Value Comparison

4.1.1 United States VS China: CVD Lab Grown Rough Diamonds Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: CVD Lab Grown Rough Diamonds Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: CVD Lab Grown Rough Diamonds Production Comparison

4.2.1 United States VS China: CVD Lab Grown Rough Diamonds Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: CVD Lab Grown Rough Diamonds Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: CVD Lab Grown Rough Diamonds Consumption Comparison

4.3.1 United States VS China: CVD Lab Grown Rough Diamonds Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: CVD Lab Grown Rough Diamonds Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based CVD Lab Grown Rough Diamonds Manufacturers and Market Share, 2018-2023

4.4.1 United States Based CVD Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers CVD Lab Grown Rough Diamonds Production Value (2018-2023)

4.4.3 United States Based Manufacturers CVD Lab Grown Rough Diamonds Production (2018-2023)

4.5 China Based CVD Lab Grown Rough Diamonds Manufacturers and Market Share

4.5.1 China Based CVD Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers CVD Lab Grown Rough Diamonds Production Value (2018-2023)

4.5.3 China Based Manufacturers CVD Lab Grown Rough Diamonds Production (2018-2023)

4.6 Rest of World Based CVD Lab Grown Rough Diamonds Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based CVD Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production (2018-2023)

## **5 MARKET ANALYSIS BY CLARITY**

5.1 World CVD Lab Grown Rough Diamonds Market Size Overview by Clarity: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Clarity

5.2.1 VVS

5.2.2 VS



5.2.3 SI

5.2.4 Others

5.3 Market Segment by Clarity

5.3.1 World CVD Lab Grown Rough Diamonds Production by Clarity (2018-2029)

5.3.2 World CVD Lab Grown Rough Diamonds Production Value by Clarity (2018-2029)

5.3.3 World CVD Lab Grown Rough Diamonds Average Price by Clarity (2018-2029)

## **6 MARKET ANALYSIS BY APPLICATION**

6.1 World CVD Lab Grown Rough Diamonds Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Gemstone

6.2.2 Industrial Applications

6.3 Market Segment by Application

6.3.1 World CVD Lab Grown Rough Diamonds Production by Application (2018-2029)

6.3.2 World CVD Lab Grown Rough Diamonds Production Value by Application (2018-2029)

6.3.3 World CVD Lab Grown Rough Diamonds Average Price by Application (2018-2029)

## **7 COMPANY PROFILES**

7.1 Element Six (De Beers)

7.1.1 Element Six (De Beers) Details

7.1.2 Element Six (De Beers) Major Business

7.1.3 Element Six (De Beers) CVD Lab Grown Rough Diamonds Product and Services

7.1.4 Element Six (De Beers) CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Element Six (De Beers) Recent Developments/Updates

7.1.6 Element Six (De Beers) Competitive Strengths & Weaknesses

7.2 Adamas One

7.2.1 Adamas One Details

7.2.2 Adamas One Major Business

7.2.3 Adamas One CVD Lab Grown Rough Diamonds Product and Services

7.2.4 Adamas One CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Adamas One Recent Developments/Updates

- 7.2.6 Adamas One Competitive Strengths & Weaknesses
- 7.3 Washington Diamonds
  - 7.3.1 Washington Diamonds Details
  - 7.3.2 Washington Diamonds Major Business
  - 7.3.3 Washington Diamonds CVD Lab Grown Rough Diamonds Product and Services
  - 7.3.4 Washington Diamonds CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.3.5 Washington Diamonds Recent Developments/Updates
  - 7.3.6 Washington Diamonds Competitive Strengths & Weaknesses
- 7.4 Creative Technologies
  - 7.4.1 Creative Technologies Details
  - 7.4.2 Creative Technologies Major Business
  - 7.4.3 Creative Technologies CVD Lab Grown Rough Diamonds Product and Services
  - 7.4.4 Creative Technologies CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.4.5 Creative Technologies Recent Developments/Updates
  - 7.4.6 Creative Technologies Competitive Strengths & Weaknesses
- 7.5 Diamond Elements
  - 7.5.1 Diamond Elements Details
  - 7.5.2 Diamond Elements Major Business
  - 7.5.3 Diamond Elements CVD Lab Grown Rough Diamonds Product and Services
  - 7.5.4 Diamond Elements CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.5.5 Diamond Elements Recent Developments/Updates
  - 7.5.6 Diamond Elements Competitive Strengths & Weaknesses
- 7.6 Shanghai Zhengshi Technology
  - 7.6.1 Shanghai Zhengshi Technology Details
  - 7.6.2 Shanghai Zhengshi Technology Major Business
  - 7.6.3 Shanghai Zhengshi Technology CVD Lab Grown Rough Diamonds Product and Services
  - 7.6.4 Shanghai Zhengshi Technology CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.6.5 Shanghai Zhengshi Technology Recent Developments/Updates
  - 7.6.6 Shanghai Zhengshi Technology Competitive Strengths & Weaknesses
- 7.7 Green Rocks Diamonds
  - 7.7.1 Green Rocks Diamonds Details
  - 7.7.2 Green Rocks Diamonds Major Business
  - 7.7.3 Green Rocks Diamonds CVD Lab Grown Rough Diamonds Product and Services

- 7.7.4 Green Rocks Diamonds CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.7.5 Green Rocks Diamonds Recent Developments/Updates
- 7.7.6 Green Rocks Diamonds Competitive Strengths & Weaknesses
- 7.8 Hangzhou Chaoran
  - 7.8.1 Hangzhou Chaoran Details
  - 7.8.2 Hangzhou Chaoran Major Business
  - 7.8.3 Hangzhou Chaoran CVD Lab Grown Rough Diamonds Product and Services
  - 7.8.4 Hangzhou Chaoran CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.8.5 Hangzhou Chaoran Recent Developments/Updates
  - 7.8.6 Hangzhou Chaoran Competitive Strengths & Weaknesses
- 7.9 Lusix
  - 7.9.1 Lusix Details
  - 7.9.2 Lusix Major Business
  - 7.9.3 Lusix CVD Lab Grown Rough Diamonds Product and Services
  - 7.9.4 Lusix CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.9.5 Lusix Recent Developments/Updates
  - 7.9.6 Lusix Competitive Strengths & Weaknesses
- 7.10 Ningbo Crysdiem Industrial Technology
  - 7.10.1 Ningbo Crysdiem Industrial Technology Details
  - 7.10.2 Ningbo Crysdiem Industrial Technology Major Business
  - 7.10.3 Ningbo Crysdiem Industrial Technology CVD Lab Grown Rough Diamonds Product and Services
  - 7.10.4 Ningbo Crysdiem Industrial Technology CVD Lab Grown Rough Diamonds Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.10.5 Ningbo Crysdiem Industrial Technology Recent Developments/Updates
  - 7.10.6 Ningbo Crysdiem Industrial Technology Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 CVD Lab Grown Rough Diamonds Industry Chain
- 8.2 CVD Lab Grown Rough Diamonds Upstream Analysis
  - 8.2.1 CVD Lab Grown Rough Diamonds Core Raw Materials
  - 8.2.2 Main Manufacturers of CVD Lab Grown Rough Diamonds Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 CVD Lab Grown Rough Diamonds Production Mode

8.6 CVD Lab Grown Rough Diamonds Procurement Model

8.7 CVD Lab Grown Rough Diamonds Industry Sales Model and Sales Channels

8.7.1 CVD Lab Grown Rough Diamonds Sales Model

8.7.2 CVD Lab Grown Rough Diamonds 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 CVD Lab Grown Rough Diamonds Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World CVD Lab Grown Rough Diamonds Production Value by Region (2018-2023) & (USD Million)

Table 3. World CVD Lab Grown Rough Diamonds Production Value by Region (2024-2029) & (USD Million)

Table 4. World CVD Lab Grown Rough Diamonds Production Value Market Share by Region (2018-2023)

Table 5. World CVD Lab Grown Rough Diamonds Production Value Market Share by Region (2024-2029)

Table 6. World CVD Lab Grown Rough Diamonds Production by Region (2018-2023) & (Tons)

Table 7. World CVD Lab Grown Rough Diamonds Production by Region (2024-2029) & (Tons)

Table 8. World CVD Lab Grown Rough Diamonds Production Market Share by Region (2018-2023)

Table 9. World CVD Lab Grown Rough Diamonds Production Market Share by Region (2024-2029)

Table 10. World CVD Lab Grown Rough Diamonds Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World CVD Lab Grown Rough Diamonds Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. CVD Lab Grown Rough Diamonds Major Market Trends

Table 13. World CVD Lab Grown Rough Diamonds Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World CVD Lab Grown Rough Diamonds Consumption by Region (2018-2023) & (Tons)

Table 15. World CVD Lab Grown Rough Diamonds Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World CVD Lab Grown Rough Diamonds Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key CVD Lab Grown Rough Diamonds Producers in 2022

Table 18. World CVD Lab Grown Rough Diamonds Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key CVD Lab Grown Rough Diamonds Producers in 2022

Table 20. World CVD Lab Grown Rough Diamonds Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 21. Global CVD Lab Grown Rough Diamonds Company Evaluation Quadrant

Table 22. World CVD Lab Grown Rough Diamonds Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and CVD Lab Grown Rough Diamonds Production Site of Key Manufacturer

Table 24. CVD Lab Grown Rough Diamonds Market: Company Product Type Footprint

Table 25. CVD Lab Grown Rough Diamonds Market: Company Product Application Footprint

Table 26. CVD Lab Grown Rough Diamonds Competitive Factors

Table 27. CVD Lab Grown Rough Diamonds New Entrant and Capacity Expansion Plans

Table 28. CVD Lab Grown Rough Diamonds Mergers & Acquisitions Activity

Table 29. United States VS China CVD Lab Grown Rough Diamonds Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China CVD Lab Grown Rough Diamonds Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China CVD Lab Grown Rough Diamonds Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based CVD Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers CVD Lab Grown Rough Diamonds Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers CVD Lab Grown Rough Diamonds Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers CVD Lab Grown Rough Diamonds Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers CVD Lab Grown Rough Diamonds Production Market Share (2018-2023)

Table 37. China Based CVD Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers CVD Lab Grown Rough Diamonds Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers CVD Lab Grown Rough Diamonds Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers CVD Lab Grown Rough Diamonds Production

(2018-2023) & (Tons)

Table 41. China Based Manufacturers CVD Lab Grown Rough Diamonds Production Market Share (2018-2023)

Table 42. Rest of World Based CVD Lab Grown Rough Diamonds Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production Market Share (2018-2023)

Table 47. World CVD Lab Grown Rough Diamonds Production Value by Clarity, (USD Million), 2018 & 2022 & 2029

Table 48. World CVD Lab Grown Rough Diamonds Production by Clarity (2018-2023) & (Tons)

Table 49. World CVD Lab Grown Rough Diamonds Production by Clarity (2024-2029) & (Tons)

Table 50. World CVD Lab Grown Rough Diamonds Production Value by Clarity (2018-2023) & (USD Million)

Table 51. World CVD Lab Grown Rough Diamonds Production Value by Clarity (2024-2029) & (USD Million)

Table 52. World CVD Lab Grown Rough Diamonds Average Price by Clarity (2018-2023) & (US\$/Ton)

Table 53. World CVD Lab Grown Rough Diamonds Average Price by Clarity (2024-2029) & (US\$/Ton)

Table 54. World CVD Lab Grown Rough Diamonds Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World CVD Lab Grown Rough Diamonds Production by Application (2018-2023) & (Tons)

Table 56. World CVD Lab Grown Rough Diamonds Production by Application (2024-2029) & (Tons)

Table 57. World CVD Lab Grown Rough Diamonds Production Value by Application (2018-2023) & (USD Million)

Table 58. World CVD Lab Grown Rough Diamonds Production Value by Application (2024-2029) & (USD Million)

Table 59. World CVD Lab Grown Rough Diamonds Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World CVD Lab Grown Rough Diamonds Average Price by Application (2024-2029) & (US\$/Ton)

Table 61. Element Six (De Beers) Basic Information, Manufacturing Base and Competitors

Table 62. Element Six (De Beers) Major Business

Table 63. Element Six (De Beers) CVD Lab Grown Rough Diamonds Product and Services

Table 64. Element Six (De Beers) CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Element Six (De Beers) Recent Developments/Updates

Table 66. Element Six (De Beers) Competitive Strengths & Weaknesses

Table 67. Adamas One Basic Information, Manufacturing Base and Competitors

Table 68. Adamas One Major Business

Table 69. Adamas One CVD Lab Grown Rough Diamonds Product and Services

Table 70. Adamas One CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Adamas One Recent Developments/Updates

Table 72. Adamas One Competitive Strengths & Weaknesses

Table 73. Washington Diamonds Basic Information, Manufacturing Base and Competitors

Table 74. Washington Diamonds Major Business

Table 75. Washington Diamonds CVD Lab Grown Rough Diamonds Product and Services

Table 76. Washington Diamonds CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Washington Diamonds Recent Developments/Updates

Table 78. Washington Diamonds Competitive Strengths & Weaknesses

Table 79. Creative Technologies Basic Information, Manufacturing Base and Competitors

Table 80. Creative Technologies Major Business

Table 81. Creative Technologies CVD Lab Grown Rough Diamonds Product and Services

Table 82. Creative Technologies CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Creative Technologies Recent Developments/Updates



- Table 84. Creative Technologies Competitive Strengths & Weaknesses
- Table 85. Diamond Elements Basic Information, Manufacturing Base and Competitors
- Table 86. Diamond Elements Major Business
- Table 87. Diamond Elements CVD Lab Grown Rough Diamonds Product and Services
- Table 88. Diamond Elements CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 89. Diamond Elements Recent Developments/Updates
- Table 90. Diamond Elements Competitive Strengths & Weaknesses
- Table 91. Shanghai Zhengshi Technology Basic Information, Manufacturing Base and Competitors
- Table 92. Shanghai Zhengshi Technology Major Business
- Table 93. Shanghai Zhengshi Technology CVD Lab Grown Rough Diamonds Product and Services
- Table 94. Shanghai Zhengshi Technology CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. Shanghai Zhengshi Technology Recent Developments/Updates
- Table 96. Shanghai Zhengshi Technology Competitive Strengths & Weaknesses
- Table 97. Green Rocks Diamonds Basic Information, Manufacturing Base and Competitors
- Table 98. Green Rocks Diamonds Major Business
- Table 99. Green Rocks Diamonds CVD Lab Grown Rough Diamonds Product and Services
- Table 100. Green Rocks Diamonds CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. Green Rocks Diamonds Recent Developments/Updates
- Table 102. Green Rocks Diamonds Competitive Strengths & Weaknesses
- Table 103. Hangzhou Chaoran Basic Information, Manufacturing Base and Competitors
- Table 104. Hangzhou Chaoran Major Business
- Table 105. Hangzhou Chaoran CVD Lab Grown Rough Diamonds Product and Services
- Table 106. Hangzhou Chaoran CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Hangzhou Chaoran Recent Developments/Updates
- Table 108. Hangzhou Chaoran Competitive Strengths & Weaknesses
- Table 109. Lusix Basic Information, Manufacturing Base and Competitors

Table 110. Lusix Major Business

Table 111. Lusix CVD Lab Grown Rough Diamonds Product and Services

Table 112. Lusix CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. Lusix Recent Developments/Updates

Table 114. Ningbo Crysdiam Industrial Technology Basic Information, Manufacturing Base and Competitors

Table 115. Ningbo Crysdiam Industrial Technology Major Business

Table 116. Ningbo Crysdiam Industrial Technology CVD Lab Grown Rough Diamonds Product and Services

Table 117. Ningbo Crysdiam Industrial Technology CVD Lab Grown Rough Diamonds Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 118. Global Key Players of CVD Lab Grown Rough Diamonds Upstream (Raw Materials)

Table 119. CVD Lab Grown Rough Diamonds Typical Customers

Table 120. CVD Lab Grown Rough Diamonds Typical Distributors

## **LIST OF FIGURE**

Figure 1. CVD Lab Grown Rough Diamonds Picture

Figure 2. World CVD Lab Grown Rough Diamonds Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World CVD Lab Grown Rough Diamonds Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World CVD Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

Figure 5. World CVD Lab Grown Rough Diamonds Average Price (2018-2029) & (US\$/Ton)

Figure 6. World CVD Lab Grown Rough Diamonds Production Value Market Share by Region (2018-2029)

Figure 7. World CVD Lab Grown Rough Diamonds Production Market Share by Region (2018-2029)

Figure 8. North America CVD Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

Figure 9. Europe CVD Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

Figure 10. China CVD Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

Figure 11. Japan CVD Lab Grown Rough Diamonds Production (2018-2029) & (Tons)

Figure 12. CVD Lab Grown Rough Diamonds Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 15. World CVD Lab Grown Rough Diamonds Consumption Market Share by Region (2018-2029)

Figure 16. United States CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 17. China CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 18. Europe CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 19. Japan CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 20. South Korea CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 21. ASEAN CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 22. India CVD Lab Grown Rough Diamonds Consumption (2018-2029) & (Tons)

Figure 23. Producer Shipments of CVD Lab Grown Rough Diamonds by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for CVD Lab Grown Rough Diamonds Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for CVD Lab Grown Rough Diamonds Markets in 2022

Figure 26. United States VS China: CVD Lab Grown Rough Diamonds Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: CVD Lab Grown Rough Diamonds Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: CVD Lab Grown Rough Diamonds Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers CVD Lab Grown Rough Diamonds Production Market Share 2022

Figure 30. China Based Manufacturers CVD Lab Grown Rough Diamonds Production Market Share 2022

Figure 31. Rest of World Based Manufacturers CVD Lab Grown Rough Diamonds Production Market Share 2022

Figure 32. World CVD Lab Grown Rough Diamonds Production Value by Clarity, (USD Million), 2018 & 2022 & 2029

Figure 33. World CVD Lab Grown Rough Diamonds Production Value Market Share by Clarity in 2022

Figure 34. VVS

Figure 35. VS

Figure 36. SI

Figure 37. Others

Figure 38. World CVD Lab Grown Rough Diamonds Production Market Share by Clarity (2018-2029)

Figure 39. World CVD Lab Grown Rough Diamonds Production Value Market Share by Clarity (2018-2029)

Figure 40. World CVD Lab Grown Rough Diamonds Average Price by Clarity (2018-2029) & (US\$/Ton)

Figure 41. World CVD Lab Grown Rough Diamonds Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World CVD Lab Grown Rough Diamonds Production Value Market Share by Application in 2022

Figure 43. Gemstone

Figure 44. Industrial Applications

Figure 45. World CVD Lab Grown Rough Diamonds Production Market Share by Application (2018-2029)

Figure 46. World CVD Lab Grown Rough Diamonds Production Value Market Share by Application (2018-2029)

Figure 47. World CVD Lab Grown Rough Diamonds Average Price by Application (2018-2029) & (US\$/Ton)

Figure 48. CVD Lab Grown Rough Diamonds Industry Chain

Figure 49. CVD Lab Grown Rough Diamonds Procurement Model

Figure 50. CVD Lab Grown Rough Diamonds Sales Model

Figure 51. CVD Lab Grown Rough Diamonds Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source

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