

# Global CVD Diamond Substrates Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global CVD Diamond Substrates market size is expected to reach \$ 91.44 million by 2032, rising at a market growth of 24.3% CAGR during the forecast period (2026-2032).

CVD Diamond Substrates refers to diamond materials made by chemical vapor deposition and delivered in a semiconductor-usable wafer/substrate form factor (round or precision-shaped, with controllable thickness/warp/roughness and polishability). The two commercial value propositions are: (i) thermal-management substrates / heat spreaders for high power-density electronics, and (ii) the longer-horizon platform for ultra-wide bandgap (UWBG) diamond electronics, where device-grade single-crystal material, doping control, and defect density become gating factors. To keep the scope consistent, most "substrates/wafers" definitions explicitly exclude large diamond plates and generic mechanical/optical components, focusing on semiconductor-oriented wafer/substrate deliveries. The prevailing business model is therefore engineered-material supply + custom specs + co-development with RF/power device and packaging customers: thermal products emphasize qualification, metallization and reliability; device-grade products emphasize material/device learning loops and multi-year supply alignment.

The value chain starts upstream with high-purity process gases (H<sub>2</sub>/CH<sub>4</sub> and dopant precursors), CVD tool ecosystems (microwave plasma subsystems, reactors, consumables), and semiconductor-grade finishing (lapping/polishing/thinning/cleaning/metallization). Single-crystal routes are additionally constrained by the availability of high-quality seed/template strategies (homoepitaxial seed or heteroepitaxial templates). Midstream manufacturers grow and process CVD diamond wafers/substrates: polycrystalline CVD diamond has already demonstrated

scaled deposition at >100 mm class and is being adopted in passive thermal management; single-crystal CVD diamond is still in the scale-up phase, with programs targeting 50 mm-class device-quality substrates and parallel exploration of heteroepitaxial scaling (e.g., reported single-crystal deposition up to ~55 mm on sapphire templates). Downstream demand clusters into (1) Si/GaN high power-density devices and packaging thermal stacks, (2) RF and defense communications (satcom, EW, emerging 6G), and (3) longer-horizon diamond devices, quantum/sensing, and radiation-detection platforms.

Market status is best described as ?thermal first, device-grade single crystal later.? Over the next several years, the most bankable volumes remain thermal-management substrates because system OEMs can quantify ROI via junction temperature reduction, reliability margins and power density; suppliers also offer mature productization options (size/thickness/metallization/composites). For example, commercial CVD diamond substrate vendors advertise wafer-scale formats (up to ~145 mm) and ultra-high thermal conductivity for heat spreading, reinforcing the near-term pull from RF and high-power electronics. Meanwhile, the strategic upside is tied to whether the industry can industrialize wafer-scale single-crystal, device-quality CVD diamond (size + defect density + doping + uniformity), which is exactly why initiatives such as DARPA-linked scale-up targets and wafer-scale collaborations are prominent in public disclosures.

This report studies the global CVD Diamond Substrates production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CVD Diamond Substrates and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of CVD Diamond Substrates that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global CVD Diamond Substrates total production and demand, 2021-2032, (Pcs)

Global CVD Diamond Substrates total production value, 2021-2032, (USD Million)

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

Global CVD Diamond Substrates consumption by region & country, CAGR, 2021-2032 & (Pcs)

U.S. VS China: CVD Diamond Substrates domestic production, consumption, key domestic manufacturers and share

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

Global CVD Diamond Substrates production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

Global CVD Diamond Substrates production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

This report profiles key players in the global CVD Diamond Substrates 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 Orbray, Element Six (E6), Diamond Foundry (DF), Advent Diamond, Compound Semiconductor (Xiamen) Technology, Coherent, EDP Corporation, Great Lakes Crystal Technologies (GLCT), Diamfab, WD Advanced Materials (WDAM), 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 Diamond Substrates market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global CVD Diamond Substrates Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global CVD Diamond Substrates Market, Segmentation by Type:

Single-crystal CVD Diamond Substrates

Polycrystalline CVD Diamond (PCD) Wafers

#### Global CVD Diamond Substrates Market, Segmentation by Size:

?10 mm coupons / pieces

1 inch (25?30 mm)

2 inch (50 mm)

3?4 inch (75?100 mm)

5?6 inch (125?150 mm)

#### Global CVD Diamond Substrates Market, Segmentation by Grade / Spec:

Quantum-grade Diamond Wafer

Electronic/Power-grade Wafer

Detector-grade Wafer

#### Global CVD Diamond Substrates Market, Segmentation by Application:

RF Power, 5G & Satellites

Power Electronics

Cloud & AI Compute

Quantum Technologies

Others

#### Companies Profiled:

Orbray

Element Six (E6)

Diamond Foundry (DF)

Advent Diamond

Compound Semiconductor (Xiamen) Technology

Coherent

EDP Corporation

Great Lakes Crystal Technologies (GLCT)

Diamfab

WD Advanced Materials (WDAM)

HiQuTe Diamond

Applied Diamond Inc

Chongqing Origin Stone Element Science and Technology Development

## Ningbo Crysdiam Technology

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World CVD Diamond Substrates Production Value by Manufacturer (2021-2026)

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

4.4.2 United States Based Manufacturers CVD Diamond Substrates Production Value (2021-2026)

4.4.3 United States Based Manufacturers CVD Diamond Substrates Production (2021-2026)

4.5 China Based CVD Diamond Substrates Manufacturers and Market Share

4.5.1 China Based CVD Diamond Substrates Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers CVD Diamond Substrates Production Value (2021-2026)

4.5.3 China Based Manufacturers CVD Diamond Substrates Production (2021-2026)

4.6 Rest of World Based CVD Diamond Substrates Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based CVD Diamond Substrates Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers CVD Diamond Substrates Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers CVD Diamond Substrates Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World CVD Diamond Substrates Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-crystal CVD Diamond Substrates

5.2.2 Polycrystalline CVD Diamond (PCD) Wafers

5.3 Market Segment by Type

5.3.1 World CVD Diamond Substrates Production by Type (2021-2032)

5.3.2 World CVD Diamond Substrates Production Value by Type (2021-2032)

5.3.3 World CVD Diamond Substrates Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SIZE**

6.1 World CVD Diamond Substrates Market Size Overview by Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Size

6.2.1 ?10 mm coupons / pieces

6.2.2 1 inch (25?30 mm)

6.2.3 2 inch (50 mm)

6.2.4 3?4 inch (75?100 mm)

6.2.5 5?6 inch (125?150 mm)

### 6.3 Market Segment by Size

6.3.1 World CVD Diamond Substrates Production by Size (2021-2032)

6.3.2 World CVD Diamond Substrates Production Value by Size (2021-2032)

6.3.3 World CVD Diamond Substrates Average Price by Size (2021-2032)

## 7 MARKET ANALYSIS BY GRADE / SPEC

7.1 World CVD Diamond Substrates Market Size Overview by Grade / Spec: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Grade / Spec

7.2.1 Quantum-grade Diamond Wafer

7.2.2 Electronic/Power-grade Wafer

7.2.3 Detector-grade Wafer

7.3 Market Segment by Grade / Spec

7.3.1 World CVD Diamond Substrates Production by Grade / Spec (2021-2032)

7.3.2 World CVD Diamond Substrates Production Value by Grade / Spec (2021-2032)

7.3.3 World CVD Diamond Substrates Average Price by Grade / Spec (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World CVD Diamond Substrates Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 RF Power, 5G & Satellites

8.2.2 Power Electronics

8.2.3 Cloud & AI Compute

8.2.4 Quantum Technologies

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World CVD Diamond Substrates Production by Application (2021-2032)

8.3.2 World CVD Diamond Substrates Production Value by Application (2021-2032)

8.3.3 World CVD Diamond Substrates Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 Orbray

9.1.1 Orbray Details

- 9.1.2 Orbray Major Business
- 9.1.3 Orbray CVD Diamond Substrates Product and Services
- 9.1.4 Orbray CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Orbray Recent Developments/Updates
- 9.1.6 Orbray Competitive Strengths & Weaknesses
- 9.2 Element Six (E6)
  - 9.2.1 Element Six (E6) Details
  - 9.2.2 Element Six (E6) Major Business
  - 9.2.3 Element Six (E6) CVD Diamond Substrates Product and Services
  - 9.2.4 Element Six (E6) CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 Element Six (E6) Recent Developments/Updates
  - 9.2.6 Element Six (E6) Competitive Strengths & Weaknesses
- 9.3 Diamond Foundry (DF)
  - 9.3.1 Diamond Foundry (DF) Details
  - 9.3.2 Diamond Foundry (DF) Major Business
  - 9.3.3 Diamond Foundry (DF) CVD Diamond Substrates Product and Services
  - 9.3.4 Diamond Foundry (DF) CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Diamond Foundry (DF) Recent Developments/Updates
  - 9.3.6 Diamond Foundry (DF) Competitive Strengths & Weaknesses
- 9.4 Advent Diamond
  - 9.4.1 Advent Diamond Details
  - 9.4.2 Advent Diamond Major Business
  - 9.4.3 Advent Diamond CVD Diamond Substrates Product and Services
  - 9.4.4 Advent Diamond CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Advent Diamond Recent Developments/Updates
  - 9.4.6 Advent Diamond Competitive Strengths & Weaknesses
- 9.5 Compound Semiconductor (Xiamen) Technology
  - 9.5.1 Compound Semiconductor (Xiamen) Technology Details
  - 9.5.2 Compound Semiconductor (Xiamen) Technology Major Business
  - 9.5.3 Compound Semiconductor (Xiamen) Technology CVD Diamond Substrates Product and Services
  - 9.5.4 Compound Semiconductor (Xiamen) Technology CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Compound Semiconductor (Xiamen) Technology Recent Developments/Updates
  - 9.5.6 Compound Semiconductor (Xiamen) Technology Competitive Strengths &

## Weaknesses

### 9.6 Coherent

9.6.1 Coherent Details

9.6.2 Coherent Major Business

9.6.3 Coherent CVD Diamond Substrates Product and Services

9.6.4 Coherent CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Coherent Recent Developments/Updates

9.6.6 Coherent Competitive Strengths & Weaknesses

### 9.7 EDP Corporation

9.7.1 EDP Corporation Details

9.7.2 EDP Corporation Major Business

9.7.3 EDP Corporation CVD Diamond Substrates Product and Services

9.7.4 EDP Corporation CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 EDP Corporation Recent Developments/Updates

9.7.6 EDP Corporation Competitive Strengths & Weaknesses

### 9.8 Great Lakes Crystal Technologies (GLCT)

9.8.1 Great Lakes Crystal Technologies (GLCT) Details

9.8.2 Great Lakes Crystal Technologies (GLCT) Major Business

9.8.3 Great Lakes Crystal Technologies (GLCT) CVD Diamond Substrates Product and Services

9.8.4 Great Lakes Crystal Technologies (GLCT) CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Great Lakes Crystal Technologies (GLCT) Recent Developments/Updates

9.8.6 Great Lakes Crystal Technologies (GLCT) Competitive Strengths & Weaknesses

### 9.9 Diamfab

9.9.1 Diamfab Details

9.9.2 Diamfab Major Business

9.9.3 Diamfab CVD Diamond Substrates Product and Services

9.9.4 Diamfab CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Diamfab Recent Developments/Updates

9.9.6 Diamfab Competitive Strengths & Weaknesses

### 9.10 WD Advanced Materials (WDAM)

9.10.1 WD Advanced Materials (WDAM) Details

9.10.2 WD Advanced Materials (WDAM) Major Business

9.10.3 WD Advanced Materials (WDAM) CVD Diamond Substrates Product and Services

- 9.10.4 WD Advanced Materials (WDAM) CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 WD Advanced Materials (WDAM) Recent Developments/Updates
- 9.10.6 WD Advanced Materials (WDAM) Competitive Strengths & Weaknesses
- 9.11 HiQuTe Diamond
  - 9.11.1 HiQuTe Diamond Details
  - 9.11.2 HiQuTe Diamond Major Business
  - 9.11.3 HiQuTe Diamond CVD Diamond Substrates Product and Services
  - 9.11.4 HiQuTe Diamond CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 HiQuTe Diamond Recent Developments/Updates
  - 9.11.6 HiQuTe Diamond Competitive Strengths & Weaknesses
- 9.12 Applied Diamond Inc
  - 9.12.1 Applied Diamond Inc Details
  - 9.12.2 Applied Diamond Inc Major Business
  - 9.12.3 Applied Diamond Inc CVD Diamond Substrates Product and Services
  - 9.12.4 Applied Diamond Inc CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Applied Diamond Inc Recent Developments/Updates
  - 9.12.6 Applied Diamond Inc Competitive Strengths & Weaknesses
- 9.13 Chongqing Origin Stone Element Science and Technology Development
  - 9.13.1 Chongqing Origin Stone Element Science and Technology Development Details
  - 9.13.2 Chongqing Origin Stone Element Science and Technology Development Major Business
  - 9.13.3 Chongqing Origin Stone Element Science and Technology Development CVD Diamond Substrates Product and Services
  - 9.13.4 Chongqing Origin Stone Element Science and Technology Development CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Chongqing Origin Stone Element Science and Technology Development Recent Developments/Updates
  - 9.13.6 Chongqing Origin Stone Element Science and Technology Development Competitive Strengths & Weaknesses
- 9.14 Ningbo Crysdiem Technology
  - 9.14.1 Ningbo Crysdiem Technology Details
  - 9.14.2 Ningbo Crysdiem Technology Major Business
  - 9.14.3 Ningbo Crysdiem Technology CVD Diamond Substrates Product and Services
  - 9.14.4 Ningbo Crysdiem Technology CVD Diamond Substrates Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Ningbo Crysdiam Technology Recent Developments/Updates

9.14.6 Ningbo Crysdiam Technology Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 CVD Diamond Substrates Industry Chain

10.2 CVD Diamond Substrates Upstream Analysis

10.2.1 CVD Diamond Substrates Core Raw Materials

10.2.2 Main Manufacturers of CVD Diamond Substrates Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 CVD Diamond Substrates Production Mode

10.6 CVD Diamond Substrates Procurement Model

10.7 CVD Diamond Substrates Industry Sales Model and Sales Channels

10.7.1 CVD Diamond Substrates Sales Model

10.7.2 CVD Diamond Substrates Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World CVD Diamond Substrates Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World CVD Diamond Substrates Production by Region (2021-2026) & (Pcs)

Table 7. World CVD Diamond Substrates Production by Region (2027-2032) & (Pcs)

Table 8. World CVD Diamond Substrates Production Market Share by Region (2021-2026)

Table 9. World CVD Diamond Substrates Production Market Share by Region (2027-2032)

Table 10. World CVD Diamond Substrates Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World CVD Diamond Substrates Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. CVD Diamond Substrates Major Market Trends

Table 13. World CVD Diamond Substrates Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Pcs)

Table 14. World CVD Diamond Substrates Consumption by Region (2021-2026) & (Pcs)

Table 15. World CVD Diamond Substrates Consumption Forecast by Region (2027-2032) & (Pcs)

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

Table 17. Production Value Market Share of Key CVD Diamond Substrates Producers in 2025

Table 18. World CVD Diamond Substrates Production by Manufacturer (2021-2026) & (Pcs)

Table 19. Production Market Share of Key CVD Diamond Substrates Producers in 2025

Table 20. World CVD Diamond Substrates Average Price by Manufacturer (2021-2026)

& (US\$/Pcs)

Table 21. Global CVD Diamond Substrates Company Evaluation Quadrant

Table 22. World CVD Diamond Substrates Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and CVD Diamond Substrates Production Site of Key Manufacturer

Table 24. CVD Diamond Substrates Market: Company Product Type Footprint

Table 25. CVD Diamond Substrates Market: Company Product Application Footprint

Table 26. CVD Diamond Substrates Competitive Factors

Table 27. CVD Diamond Substrates New Entrant and Capacity Expansion Plans

Table 28. CVD Diamond Substrates Mergers & Acquisitions Activity

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

Table 30. United States VS China CVD Diamond Substrates Production Comparison, (2021 & 2025 & 2032) & (Pcs)

Table 31. United States VS China CVD Diamond Substrates Consumption Comparison, (2021 & 2025 & 2032) & (Pcs)

Table 32. United States Based CVD Diamond Substrates Manufacturers, Headquarters and Production Site (States, Country)

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

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

Table 35. United States Based Manufacturers CVD Diamond Substrates Production (2021-2026) & (Pcs)

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

Table 37. China Based CVD Diamond Substrates Manufacturers, Headquarters and Production Site (Province, Country)

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

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

Table 40. China Based Manufacturers CVD Diamond Substrates Production, (2021-2026) & (Pcs)

Table 41. China Based Manufacturers CVD Diamond Substrates Production Market Share (2021-2026)

Table 42. Rest of World Based CVD Diamond Substrates Manufacturers, Headquarters and Production Site (State, Country)

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

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

Table 45. Rest of World Based Manufacturers CVD Diamond Substrates Production, (2021-2026) & (Pcs)

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

Table 47. World CVD Diamond Substrates Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World CVD Diamond Substrates Production by Type (2021-2026) & (Pcs)

Table 49. World CVD Diamond Substrates Production by Type (2027-2032) & (Pcs)

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

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

Table 52. World CVD Diamond Substrates Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World CVD Diamond Substrates Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World CVD Diamond Substrates Production Value by Size, (USD Million), 2021 & 2025 & 2032

Table 55. World CVD Diamond Substrates Production by Size (2021-2026) & (Pcs)

Table 56. World CVD Diamond Substrates Production by Size (2027-2032) & (Pcs)

Table 57. World CVD Diamond Substrates Production Value by Size (2021-2026) & (USD Million)

Table 58. World CVD Diamond Substrates Production Value by Size (2027-2032) & (USD Million)

Table 59. World CVD Diamond Substrates Average Price by Size (2021-2026) & (US\$/Pcs)

Table 60. World CVD Diamond Substrates Average Price by Size (2027-2032) & (US\$/Pcs)

Table 61. World CVD Diamond Substrates Production Value by Grade / Spec, (USD Million), 2021 & 2025 & 2032

Table 62. World CVD Diamond Substrates Production by Grade / Spec (2021-2026) & (Pcs)

Table 63. World CVD Diamond Substrates Production by Grade / Spec (2027-2032) & (Pcs)

Table 64. World CVD Diamond Substrates Production Value by Grade / Spec

(2021-2026) & (USD Million)

Table 65. World CVD Diamond Substrates Production Value by Grade / Spec

(2027-2032) & (USD Million)

Table 66. World CVD Diamond Substrates Average Price by Grade / Spec (2021-2026) & (US\$/Pcs)

Table 67. World CVD Diamond Substrates Average Price by Grade / Spec (2027-2032) & (US\$/Pcs)

Table 68. World CVD Diamond Substrates Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World CVD Diamond Substrates Production by Application (2021-2026) & (Pcs)

Table 70. World CVD Diamond Substrates Production by Application (2027-2032) & (Pcs)

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

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

Table 73. World CVD Diamond Substrates Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World CVD Diamond Substrates Average Price by Application (2027-2032) & (US\$/Pcs)

Table 75. Orbray Basic Information, Manufacturing Base and Competitors

Table 76. Orbray Major Business

Table 77. Orbray CVD Diamond Substrates Product and Services

Table 78. Orbray CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Orbray Recent Developments/Updates

Table 80. Orbray Competitive Strengths & Weaknesses

Table 81. Element Six (E6) Basic Information, Manufacturing Base and Competitors

Table 82. Element Six (E6) Major Business

Table 83. Element Six (E6) CVD Diamond Substrates Product and Services

Table 84. Element Six (E6) CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Element Six (E6) Recent Developments/Updates

Table 86. Element Six (E6) Competitive Strengths & Weaknesses

Table 87. Diamond Foundry (DF) Basic Information, Manufacturing Base and Competitors

Table 88. Diamond Foundry (DF) Major Business

Table 89. Diamond Foundry (DF) CVD Diamond Substrates Product and Services

Table 90. Diamond Foundry (DF) CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Diamond Foundry (DF) Recent Developments/Updates

Table 92. Diamond Foundry (DF) Competitive Strengths & Weaknesses

Table 93. Advent Diamond Basic Information, Manufacturing Base and Competitors

Table 94. Advent Diamond Major Business

Table 95. Advent Diamond CVD Diamond Substrates Product and Services

Table 96. Advent Diamond CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Advent Diamond Recent Developments/Updates

Table 98. Advent Diamond Competitive Strengths & Weaknesses

Table 99. Compound Semiconductor (Xiamen) Technology Basic Information, Manufacturing Base and Competitors

Table 100. Compound Semiconductor (Xiamen) Technology Major Business

Table 101. Compound Semiconductor (Xiamen) Technology CVD Diamond Substrates Product and Services

Table 102. Compound Semiconductor (Xiamen) Technology CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Compound Semiconductor (Xiamen) Technology Recent Developments/Updates

Table 104. Compound Semiconductor (Xiamen) Technology Competitive Strengths & Weaknesses

Table 105. Coherent Basic Information, Manufacturing Base and Competitors

Table 106. Coherent Major Business

Table 107. Coherent CVD Diamond Substrates Product and Services

Table 108. Coherent CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Coherent Recent Developments/Updates

Table 110. Coherent Competitive Strengths & Weaknesses

Table 111. EDP Corporation Basic Information, Manufacturing Base and Competitors

Table 112. EDP Corporation Major Business

Table 113. EDP Corporation CVD Diamond Substrates Product and Services

Table 114. EDP Corporation CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 115. EDP Corporation Recent Developments/Updates
- Table 116. EDP Corporation Competitive Strengths & Weaknesses
- Table 117. Great Lakes Crystal Technologies (GLCT) Basic Information, Manufacturing Base and Competitors
- Table 118. Great Lakes Crystal Technologies (GLCT) Major Business
- Table 119. Great Lakes Crystal Technologies (GLCT) CVD Diamond Substrates Product and Services
- Table 120. Great Lakes Crystal Technologies (GLCT) CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Great Lakes Crystal Technologies (GLCT) Recent Developments/Updates
- Table 122. Great Lakes Crystal Technologies (GLCT) Competitive Strengths & Weaknesses
- Table 123. Diamfab Basic Information, Manufacturing Base and Competitors
- Table 124. Diamfab Major Business
- Table 125. Diamfab CVD Diamond Substrates Product and Services
- Table 126. Diamfab CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Diamfab Recent Developments/Updates
- Table 128. Diamfab Competitive Strengths & Weaknesses
- Table 129. WD Advanced Materials (WDAM) Basic Information, Manufacturing Base and Competitors
- Table 130. WD Advanced Materials (WDAM) Major Business
- Table 131. WD Advanced Materials (WDAM) CVD Diamond Substrates Product and Services
- Table 132. WD Advanced Materials (WDAM) CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. WD Advanced Materials (WDAM) Recent Developments/Updates
- Table 134. WD Advanced Materials (WDAM) Competitive Strengths & Weaknesses
- Table 135. HiQuTe Diamond Basic Information, Manufacturing Base and Competitors
- Table 136. HiQuTe Diamond Major Business
- Table 137. HiQuTe Diamond CVD Diamond Substrates Product and Services
- Table 138. HiQuTe Diamond CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. HiQuTe Diamond Recent Developments/Updates
- Table 140. HiQuTe Diamond Competitive Strengths & Weaknesses
- Table 141. Applied Diamond Inc Basic Information, Manufacturing Base and

## Competitors

Table 142. Applied Diamond Inc Major Business

Table 143. Applied Diamond Inc CVD Diamond Substrates Product and Services

Table 144. Applied Diamond Inc CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Applied Diamond Inc Recent Developments/Updates

Table 146. Applied Diamond Inc Competitive Strengths & Weaknesses

Table 147. Chongqing Origin Stone Element Science and Technology Development Basic Information, Manufacturing Base and Competitors

Table 148. Chongqing Origin Stone Element Science and Technology Development Major Business

Table 149. Chongqing Origin Stone Element Science and Technology Development CVD Diamond Substrates Product and Services

Table 150. Chongqing Origin Stone Element Science and Technology Development CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Chongqing Origin Stone Element Science and Technology Development Recent Developments/Updates

Table 152. Chongqing Origin Stone Element Science and Technology Development Competitive Strengths & Weaknesses

Table 153. Ningbo Crysdiem Technology Basic Information, Manufacturing Base and Competitors

Table 154. Ningbo Crysdiem Technology Major Business

Table 155. Ningbo Crysdiem Technology CVD Diamond Substrates Product and Services

Table 156. Ningbo Crysdiem Technology CVD Diamond Substrates Production (Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Ningbo Crysdiem Technology Recent Developments/Updates

Table 158. Ningbo Crysdiem Technology Competitive Strengths & Weaknesses

Table 159. Global Key Players of CVD Diamond Substrates Upstream (Raw Materials)

Table 160. Global CVD Diamond Substrates Typical Customers

Table 161. CVD Diamond Substrates Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. CVD Diamond Substrates Picture

Figure 2. World CVD Diamond Substrates Production Value: 2021 & 2025 & 2032, (USD Million)

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

Figure 4. World CVD Diamond Substrates Production (2021-2032) & (Pcs)

Figure 5. World CVD Diamond Substrates Average Price (2021-2032) & (US\$/Pcs)

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

Figure 7. World CVD Diamond Substrates Production Market Share by Region (2021-2032)

Figure 8. Japan CVD Diamond Substrates Production (2021-2032) & (Pcs)

Figure 9. North America CVD Diamond Substrates Production (2021-2032) & (Pcs)

Figure 10. Europe CVD Diamond Substrates Production (2021-2032) & (Pcs)

Figure 11. China CVD Diamond Substrates Production (2021-2032) & (Pcs)

Figure 12. CVD Diamond Substrates Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 15. World CVD Diamond Substrates Consumption Market Share by Region (2021-2032)

Figure 16. United States CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 17. China CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 18. Europe CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 19. Japan CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 20. South Korea CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 21. ASEAN CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 22. India CVD Diamond Substrates Consumption (2021-2032) & (Pcs)

Figure 23. Producer Shipments of CVD Diamond Substrates by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for CVD Diamond Substrates Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for CVD Diamond Substrates Markets in 2025

Figure 26. United States VS China: CVD Diamond Substrates Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: CVD Diamond Substrates Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: CVD Diamond Substrates Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers CVD Diamond Substrates Production Market Share 2025

Figure 30. China Based Manufacturers CVD Diamond Substrates Production Market Share 2025

Figure 31. Rest of World Based Manufacturers CVD Diamond Substrates Production Market Share 2025

Figure 32. World CVD Diamond Substrates Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World CVD Diamond Substrates Production Value Market Share by Type in 2025

Figure 34. Single-crystal CVD Diamond Substrates

Figure 35. Polycrystalline CVD Diamond (PCD) Wafers

Figure 36. World CVD Diamond Substrates Production Market Share by Type (2021-2032)

Figure 37. World CVD Diamond Substrates Production Value Market Share by Type (2021-2032)

Figure 38. World CVD Diamond Substrates Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 39. World CVD Diamond Substrates Production Value by Size, (USD Million), 2021 & 2025 & 2032

Figure 40. World CVD Diamond Substrates Production Value Market Share by Size in 2025

Figure 41. ?10 mm coupons / pieces

Figure 42. 1 inch (25?30 mm)

Figure 43. 2 inch (50 mm)

Figure 44. 3?4 inch (75?100 mm)

Figure 45. 5?6 inch (125?150 mm)

Figure 46. World CVD Diamond Substrates Production Market Share by Size (2021-2032)

Figure 47. World CVD Diamond Substrates Production Value Market Share by Size (2021-2032)

Figure 48. World CVD Diamond Substrates Average Price by Size (2021-2032) & (US\$/Pcs)

Figure 49. World CVD Diamond Substrates Production Value by Grade / Spec, (USD Million), 2021 & 2025 & 2032

- Figure 50. World CVD Diamond Substrates Production Value Market Share by Grade / Spec in 2025
- Figure 51. Quantum-grade Diamond Wafer
- Figure 52. Electronic/Power-grade Wafer
- Figure 53. Detector-grade Wafer
- Figure 54. World CVD Diamond Substrates Production Market Share by Grade / Spec (2021-2032)
- Figure 55. World CVD Diamond Substrates Production Value Market Share by Grade / Spec (2021-2032)
- Figure 56. World CVD Diamond Substrates Average Price by Grade / Spec (2021-2032) & (US\$/Pcs)
- Figure 57. World CVD Diamond Substrates Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 58. World CVD Diamond Substrates Production Value Market Share by Application in 2025
- Figure 59. RF Power, 5G & Satellites
- Figure 60. Power Electronics
- Figure 61. Cloud & AI Compute
- Figure 62. Quantum Technologies
- Figure 63. Others
- Figure 64. World CVD Diamond Substrates Production Market Share by Application (2021-2032)
- Figure 65. World CVD Diamond Substrates Production Value Market Share by Application (2021-2032)
- Figure 66. World CVD Diamond Substrates Average Price by Application (2021-2032) & (US\$/Pcs)
- Figure 67. CVD Diamond Substrates Industry Chain
- Figure 68. CVD Diamond Substrates Procurement Model
- Figure 69. CVD Diamond Substrates Sales Model
- Figure 70. CVD Diamond Substrates Sales Channels, Direct Sales, and Distribution
- Figure 71. Methodology
- Figure 72. Research Process and Data Source

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