

Global Synthetic White Diamond Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Synthetic White Diamond market size is expected to reach \$ 767 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032). Synthetic White Diamond is an unmounted diamond cultivated through Chemical Vapor Deposition or High Pressure High Temperature processes and subsequently cut and polished, characterized by controlled purity, consistent appearance, stable crystal structure, and high optical uniformity, primarily targeting jewelry end-use applications. Its advantages lie in predictable quality, significantly lower cost than natural diamonds, flexible customization of color and clarity according to brand positioning and consumer preferences, as well as superior traceability and sustainability attributes. In 2024, production reached approximately 11 million carats and the average price was USD 40 per carat. The industry's capacity utilization rate in 2024 was about 70% and the average gross margin was around 40%. Upstream, key inputs include methane, hydrogen, CVD reaction chambers, graphite, metal catalysts, and ultra-high-pressure presses, with representative suppliers such as Air Liquide, Linde, Applied Materials, GrafTech, and Sumitomo providing industrial gases, equipment, and carbon source materials. The midstream segment focuses on seed crystal preparation, CVD or HPHT growth control, high-pressure or plasma process management, rough diamond cutting and polishing, and grading based on the 4C standards to meet specifications across different jewelry segments. Downstream, Synthetic White Diamond is mainly supplied to jewelry brands such as Signet Jewelers, Pandora, Chow Tai Fook, and Blue Nile, where it is used in engagement rings, fashion jewelry, and branded collections to address growing demand for high value-for-money, high-quality, and responsibly sourced diamonds.

The outlook for Synthetic White Diamond reflects a transition phase in the global jewelry value chain, where demand is increasingly shaped by affordability, design flexibility, and supply certainty rather than rarity alone. In key applications such as engagement

jewelry and branded everyday wear, lab-grown white diamonds are being integrated as standardized inputs that support faster product cycles and more disciplined pricing strategies. Current industry conditions show intensifying competition and gradual price normalization, which is pressuring less efficient producers while favoring those with scale, process stability, and strong relationships with downstream brands. Over the medium term, profitability is expected to hinge on yield improvement, grading efficiency, and the ability to align production specifications with brand-led design concepts. Companies that can combine manufacturing discipline with application-driven collaboration are better positioned to translate operational advantages into sustainable earnings.

This report studies the global Synthetic White Diamond production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Synthetic White Diamond total production and demand, 2021-2032, (K Ct)

Global Synthetic White Diamond total production value, 2021-2032, (USD Million)

Global Synthetic White Diamond production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Ct), (based on production site)

Global Synthetic White Diamond consumption by region & country, CAGR, 2021-2032 & (K Ct)

U.S. VS China: Synthetic White Diamond domestic production, consumption, key domestic manufacturers and share

Global Synthetic White Diamond production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Ct)

Global Synthetic White Diamond production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Ct)

Global Synthetic White Diamond production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Ct)

This report profiles key players in the global Synthetic White Diamond 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 Zhongnan Diamond, Huanghe Whirlwind, Zhengzhou Sino-Crystal Diamond, Liliang Diamond, Element Six, Diamond Foundry, Ila Technologies, WD Advanced Materials, Shanghai Zhengshi Technology, Changrun Jirui, 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 Synthetic White Diamond market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Ct) and average price (US\$/Ct) 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 Synthetic White Diamond Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synthetic White Diamond Market, Segmentation by Type:

CVD

HPHT

Global Synthetic White Diamond Market, Segmentation by Shape:

Round Cut

Cushion Cut

Oval Cut

Others

Global Synthetic White Diamond Market, Segmentation by Color:

D?F Colorless

G?J Near-Colorless

K?M Faint Color

Global Synthetic White Diamond Market, Segmentation by Application:

Ring

Necklace

Others

Companies Profiled:

Zhongnan Diamond

Huanghe Whirlwind

Zhengzhou Sino?Crystal Diamond

Liliang Diamond

Element Six

Diamond Foundry

Ila Technologies

WD Advanced Materials

Shanghai Zhengshi Technology

Changrun Jirui

SINOMACH Precision Industry

Worldia

Hangzhou Chaoran Technology

SF Diamond

Wonder Technologies

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Synthetic White Diamond Production Value by Manufacturer (2021-2026)

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

- 4.4.2 United States Based Manufacturers Synthetic White Diamond Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers Synthetic White Diamond Production (2021-2026)
- 4.5 China Based Synthetic White Diamond Manufacturers and Market Share
 - 4.5.1 China Based Synthetic White Diamond Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Synthetic White Diamond Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Synthetic White Diamond Production (2021-2026)
- 4.6 Rest of World Based Synthetic White Diamond Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Synthetic White Diamond Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Synthetic White Diamond Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Synthetic White Diamond Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Synthetic White Diamond Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 CVD
 - 5.2.2 HPHT
- 5.3 Market Segment by Type
 - 5.3.1 World Synthetic White Diamond Production by Type (2021-2032)
 - 5.3.2 World Synthetic White Diamond Production Value by Type (2021-2032)
 - 5.3.3 World Synthetic White Diamond Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SHAPE

- 6.1 World Synthetic White Diamond Market Size Overview by Shape: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Shape
 - 6.2.1 Round Cut
 - 6.2.2 Cushion Cut
 - 6.2.3 Oval Cut

6.2.4 Others

6.3 Market Segment by Shape

6.3.1 World Synthetic White Diamond Production by Shape (2021-2032)

6.3.2 World Synthetic White Diamond Production Value by Shape (2021-2032)

6.3.3 World Synthetic White Diamond Average Price by Shape (2021-2032)

7 MARKET ANALYSIS BY COLOR

7.1 World Synthetic White Diamond Market Size Overview by Color: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Color

7.2.1 D?F Colorless

7.2.2 G?J Near-Colorless

7.2.3 K?M Faint Color

7.3 Market Segment by Color

7.3.1 World Synthetic White Diamond Production by Color (2021-2032)

7.3.2 World Synthetic White Diamond Production Value by Color (2021-2032)

7.3.3 World Synthetic White Diamond Average Price by Color (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Synthetic White Diamond Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Ring

8.2.2 Necklace

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Synthetic White Diamond Production by Application (2021-2032)

8.3.2 World Synthetic White Diamond Production Value by Application (2021-2032)

8.3.3 World Synthetic White Diamond Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Zhongnan Diamond

9.1.1 Zhongnan Diamond Details

9.1.2 Zhongnan Diamond Major Business

9.1.3 Zhongnan Diamond Synthetic White Diamond Product and Services

9.1.4 Zhongnan Diamond Synthetic White Diamond Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.1.5 Zhongnan Diamond Recent Developments/Updates

9.1.6 Zhongnan Diamond Competitive Strengths & Weaknesses

9.2 Huanghe Whirlwind

9.2.1 Huanghe Whirlwind Details

9.2.2 Huanghe Whirlwind Major Business

9.2.3 Huanghe Whirlwind Synthetic White Diamond Product and Services

9.2.4 Huanghe Whirlwind Synthetic White Diamond Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.2.5 Huanghe Whirlwind Recent Developments/Updates

9.2.6 Huanghe Whirlwind Competitive Strengths & Weaknesses

9.3 Zhengzhou Sino?Crystal Diamond

9.3.1 Zhengzhou Sino?Crystal Diamond Details

9.3.2 Zhengzhou Sino?Crystal Diamond Major Business

9.3.3 Zhengzhou Sino?Crystal Diamond Synthetic White Diamond Product and

Services

9.3.4 Zhengzhou Sino?Crystal Diamond Synthetic White Diamond Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhengzhou Sino?Crystal Diamond Recent Developments/Updates

9.3.6 Zhengzhou Sino?Crystal Diamond Competitive Strengths & Weaknesses

9.4 Liliang Diamond

9.4.1 Liliang Diamond Details

9.4.2 Liliang Diamond Major Business

9.4.3 Liliang Diamond Synthetic White Diamond Product and Services

9.4.4 Liliang Diamond Synthetic White Diamond Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.4.5 Liliang Diamond Recent Developments/Updates

9.4.6 Liliang Diamond Competitive Strengths & Weaknesses

9.5 Element Six

9.5.1 Element Six Details

9.5.2 Element Six Major Business

9.5.3 Element Six Synthetic White Diamond Product and Services

9.5.4 Element Six Synthetic White Diamond Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.5.5 Element Six Recent Developments/Updates

9.5.6 Element Six Competitive Strengths & Weaknesses

9.6 Diamond Foundry

9.6.1 Diamond Foundry Details

9.6.2 Diamond Foundry Major Business

- 9.6.3 Diamond Foundry Synthetic White Diamond Product and Services
- 9.6.4 Diamond Foundry Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Diamond Foundry Recent Developments/Updates
- 9.6.6 Diamond Foundry Competitive Strengths & Weaknesses
- 9.7 Ila Technologies
 - 9.7.1 Ila Technologies Details
 - 9.7.2 Ila Technologies Major Business
 - 9.7.3 Ila Technologies Synthetic White Diamond Product and Services
 - 9.7.4 Ila Technologies Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ila Technologies Recent Developments/Updates
 - 9.7.6 Ila Technologies Competitive Strengths & Weaknesses
- 9.8 WD Advanced Materials
 - 9.8.1 WD Advanced Materials Details
 - 9.8.2 WD Advanced Materials Major Business
 - 9.8.3 WD Advanced Materials Synthetic White Diamond Product and Services
 - 9.8.4 WD Advanced Materials Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 WD Advanced Materials Recent Developments/Updates
 - 9.8.6 WD Advanced Materials Competitive Strengths & Weaknesses
- 9.9 Shanghai Zhengshi Technology
 - 9.9.1 Shanghai Zhengshi Technology Details
 - 9.9.2 Shanghai Zhengshi Technology Major Business
 - 9.9.3 Shanghai Zhengshi Technology Synthetic White Diamond Product and Services
 - 9.9.4 Shanghai Zhengshi Technology Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Shanghai Zhengshi Technology Recent Developments/Updates
 - 9.9.6 Shanghai Zhengshi Technology Competitive Strengths & Weaknesses
- 9.10 Changrun Jirui
 - 9.10.1 Changrun Jirui Details
 - 9.10.2 Changrun Jirui Major Business
 - 9.10.3 Changrun Jirui Synthetic White Diamond Product and Services
 - 9.10.4 Changrun Jirui Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Changrun Jirui Recent Developments/Updates
 - 9.10.6 Changrun Jirui Competitive Strengths & Weaknesses
- 9.11 SINOMACH Precision Industry
 - 9.11.1 SINOMACH Precision Industry Details

- 9.11.2 SINOMACH Precision Industry Major Business
- 9.11.3 SINOMACH Precision Industry Synthetic White Diamond Product and Services
- 9.11.4 SINOMACH Precision Industry Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 SINOMACH Precision Industry Recent Developments/Updates
- 9.11.6 SINOMACH Precision Industry Competitive Strengths & Weaknesses
- 9.12 Worldia
 - 9.12.1 Worldia Details
 - 9.12.2 Worldia Major Business
 - 9.12.3 Worldia Synthetic White Diamond Product and Services
 - 9.12.4 Worldia Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Worldia Recent Developments/Updates
 - 9.12.6 Worldia Competitive Strengths & Weaknesses
- 9.13 Hangzhou Chaoran Technology
 - 9.13.1 Hangzhou Chaoran Technology Details
 - 9.13.2 Hangzhou Chaoran Technology Major Business
 - 9.13.3 Hangzhou Chaoran Technology Synthetic White Diamond Product and Services
 - 9.13.4 Hangzhou Chaoran Technology Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Hangzhou Chaoran Technology Recent Developments/Updates
 - 9.13.6 Hangzhou Chaoran Technology Competitive Strengths & Weaknesses
- 9.14 SF Diamond
 - 9.14.1 SF Diamond Details
 - 9.14.2 SF Diamond Major Business
 - 9.14.3 SF Diamond Synthetic White Diamond Product and Services
 - 9.14.4 SF Diamond Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 SF Diamond Recent Developments/Updates
 - 9.14.6 SF Diamond Competitive Strengths & Weaknesses
- 9.15 Wonder Technologies
 - 9.15.1 Wonder Technologies Details
 - 9.15.2 Wonder Technologies Major Business
 - 9.15.3 Wonder Technologies Synthetic White Diamond Product and Services
 - 9.15.4 Wonder Technologies Synthetic White Diamond Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Wonder Technologies Recent Developments/Updates
 - 9.15.6 Wonder Technologies Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Synthetic White Diamond Industry Chain

10.2 Synthetic White Diamond Upstream Analysis

10.2.1 Synthetic White Diamond Core Raw Materials

10.2.2 Main Manufacturers of Synthetic White Diamond Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Synthetic White Diamond Production Mode

10.6 Synthetic White Diamond Procurement Model

10.7 Synthetic White Diamond Industry Sales Model and Sales Channels

10.7.1 Synthetic White Diamond Sales Model

10.7.2 Synthetic White Diamond 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 Synthetic White Diamond Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Synthetic White Diamond Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Synthetic White Diamond Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Synthetic White Diamond Production Value Market Share by Region (2021-2026)
- Table 5. World Synthetic White Diamond Production Value Market Share by Region (2027-2032)
- Table 6. World Synthetic White Diamond Production by Region (2021-2026) & (K Ct)
- Table 7. World Synthetic White Diamond Production by Region (2027-2032) & (K Ct)
- Table 8. World Synthetic White Diamond Production Market Share by Region (2021-2026)
- Table 9. World Synthetic White Diamond Production Market Share by Region (2027-2032)
- Table 10. World Synthetic White Diamond Average Price by Region (2021-2026) & (US\$/Ct)
- Table 11. World Synthetic White Diamond Average Price by Region (2027-2032) & (US\$/Ct)
- Table 12. Synthetic White Diamond Major Market Trends
- Table 13. World Synthetic White Diamond Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Ct)
- Table 14. World Synthetic White Diamond Consumption by Region (2021-2026) & (K Ct)
- Table 15. World Synthetic White Diamond Consumption Forecast by Region (2027-2032) & (K Ct)
- Table 16. World Synthetic White Diamond Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Synthetic White Diamond Producers in 2025
- Table 18. World Synthetic White Diamond Production by Manufacturer (2021-2026) & (K Ct)
- Table 19. Production Market Share of Key Synthetic White Diamond Producers in 2025
- Table 20. World Synthetic White Diamond Average Price by Manufacturer (2021-2026)

& (US\$/Ct)

Table 21. Global Synthetic White Diamond Company Evaluation Quadrant

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

Table 23. Head Office and Synthetic White Diamond Production Site of Key Manufacturer

Table 24. Synthetic White Diamond Market: Company Product Type Footprint

Table 25. Synthetic White Diamond Market: Company Product Application Footprint

Table 26. Synthetic White Diamond Competitive Factors

Table 27. Synthetic White Diamond New Entrant and Capacity Expansion Plans

Table 28. Synthetic White Diamond Mergers & Acquisitions Activity

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

Table 30. United States VS China Synthetic White Diamond Production Comparison, (2021 & 2025 & 2032) & (K Ct)

Table 31. United States VS China Synthetic White Diamond Consumption Comparison, (2021 & 2025 & 2032) & (K Ct)

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

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

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

Table 35. United States Based Manufacturers Synthetic White Diamond Production (2021-2026) & (K Ct)

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

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

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

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

Table 40. China Based Manufacturers Synthetic White Diamond Production, (2021-2026) & (K Ct)

Table 41. China Based Manufacturers Synthetic White Diamond Production Market Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Synthetic White Diamond Production, (2021-2026) & (K Ct)

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

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

Table 48. World Synthetic White Diamond Production by Type (2021-2026) & (K Ct)

Table 49. World Synthetic White Diamond Production by Type (2027-2032) & (K Ct)

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

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

Table 52. World Synthetic White Diamond Average Price by Type (2021-2026) & (US\$/Ct)

Table 53. World Synthetic White Diamond Average Price by Type (2027-2032) & (US\$/Ct)

Table 54. World Synthetic White Diamond Production Value by Shape, (USD Million), 2021 & 2025 & 2032

Table 55. World Synthetic White Diamond Production by Shape (2021-2026) & (K Ct)

Table 56. World Synthetic White Diamond Production by Shape (2027-2032) & (K Ct)

Table 57. World Synthetic White Diamond Production Value by Shape (2021-2026) & (USD Million)

Table 58. World Synthetic White Diamond Production Value by Shape (2027-2032) & (USD Million)

Table 59. World Synthetic White Diamond Average Price by Shape (2021-2026) & (US\$/Ct)

Table 60. World Synthetic White Diamond Average Price by Shape (2027-2032) & (US\$/Ct)

Table 61. World Synthetic White Diamond Production Value by Color, (USD Million), 2021 & 2025 & 2032

Table 62. World Synthetic White Diamond Production by Color (2021-2026) & (K Ct)

Table 63. World Synthetic White Diamond Production by Color (2027-2032) & (K Ct)

Table 64. World Synthetic White Diamond Production Value by Color (2021-2026) & (USD Million)

Table 65. World Synthetic White Diamond Production Value by Color (2027-2032) &

(USD Million)

Table 66. World Synthetic White Diamond Average Price by Color (2021-2026) & (US\$/Ct)

Table 67. World Synthetic White Diamond Average Price by Color (2027-2032) & (US\$/Ct)

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

Table 69. World Synthetic White Diamond Production by Application (2021-2026) & (K Ct)

Table 70. World Synthetic White Diamond Production by Application (2027-2032) & (K Ct)

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

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

Table 73. World Synthetic White Diamond Average Price by Application (2021-2026) & (US\$/Ct)

Table 74. World Synthetic White Diamond Average Price by Application (2027-2032) & (US\$/Ct)

Table 75. Zhongnan Diamond Basic Information, Manufacturing Base and Competitors

Table 76. Zhongnan Diamond Major Business

Table 77. Zhongnan Diamond Synthetic White Diamond Product and Services

Table 78. Zhongnan Diamond Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Zhongnan Diamond Recent Developments/Updates

Table 80. Zhongnan Diamond Competitive Strengths & Weaknesses

Table 81. Huanghe Whirlwind Basic Information, Manufacturing Base and Competitors

Table 82. Huanghe Whirlwind Major Business

Table 83. Huanghe Whirlwind Synthetic White Diamond Product and Services

Table 84. Huanghe Whirlwind Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Huanghe Whirlwind Recent Developments/Updates

Table 86. Huanghe Whirlwind Competitive Strengths & Weaknesses

Table 87. Zhengzhou Sino?Crystal Diamond Basic Information, Manufacturing Base and Competitors

Table 88. Zhengzhou Sino?Crystal Diamond Major Business

Table 89. Zhengzhou Sino?Crystal Diamond Synthetic White Diamond Product and Services

Table 90. Zhengzhou Sino?Crystal Diamond Synthetic White Diamond Production (K

Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zhengzhou Sino?Crystal Diamond Recent Developments/Updates

Table 92. Zhengzhou Sino?Crystal Diamond Competitive Strengths & Weaknesses

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

Table 94. Liliang Diamond Major Business

Table 95. Liliang Diamond Synthetic White Diamond Product and Services

Table 96. Liliang Diamond Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Liliang Diamond Recent Developments/Updates

Table 98. Liliang Diamond Competitive Strengths & Weaknesses

Table 99. Element Six Basic Information, Manufacturing Base and Competitors

Table 100. Element Six Major Business

Table 101. Element Six Synthetic White Diamond Product and Services

Table 102. Element Six Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Element Six Recent Developments/Updates

Table 104. Element Six Competitive Strengths & Weaknesses

Table 105. Diamond Foundry Basic Information, Manufacturing Base and Competitors

Table 106. Diamond Foundry Major Business

Table 107. Diamond Foundry Synthetic White Diamond Product and Services

Table 108. Diamond Foundry Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Diamond Foundry Recent Developments/Updates

Table 110. Diamond Foundry Competitive Strengths & Weaknesses

Table 111. Ila Technologies Basic Information, Manufacturing Base and Competitors

Table 112. Ila Technologies Major Business

Table 113. Ila Technologies Synthetic White Diamond Product and Services

Table 114. Ila Technologies Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Ila Technologies Recent Developments/Updates

Table 116. Ila Technologies Competitive Strengths & Weaknesses

Table 117. WD Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 118. WD Advanced Materials Major Business

Table 119. WD Advanced Materials Synthetic White Diamond Product and Services

Table 120. WD Advanced Materials Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. WD Advanced Materials Recent Developments/Updates

- Table 122. WD Advanced Materials Competitive Strengths & Weaknesses
- Table 123. Shanghai Zhengshi Technology Basic Information, Manufacturing Base and Competitors
- Table 124. Shanghai Zhengshi Technology Major Business
- Table 125. Shanghai Zhengshi Technology Synthetic White Diamond Product and Services
- Table 126. Shanghai Zhengshi Technology Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Shanghai Zhengshi Technology Recent Developments/Updates
- Table 128. Shanghai Zhengshi Technology Competitive Strengths & Weaknesses
- Table 129. Changrun Jirui Basic Information, Manufacturing Base and Competitors
- Table 130. Changrun Jirui Major Business
- Table 131. Changrun Jirui Synthetic White Diamond Product and Services
- Table 132. Changrun Jirui Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Changrun Jirui Recent Developments/Updates
- Table 134. Changrun Jirui Competitive Strengths & Weaknesses
- Table 135. SINOMACH Precision Industry Basic Information, Manufacturing Base and Competitors
- Table 136. SINOMACH Precision Industry Major Business
- Table 137. SINOMACH Precision Industry Synthetic White Diamond Product and Services
- Table 138. SINOMACH Precision Industry Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. SINOMACH Precision Industry Recent Developments/Updates
- Table 140. SINOMACH Precision Industry Competitive Strengths & Weaknesses
- Table 141. Worldia Basic Information, Manufacturing Base and Competitors
- Table 142. Worldia Major Business
- Table 143. Worldia Synthetic White Diamond Product and Services
- Table 144. Worldia Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Worldia Recent Developments/Updates
- Table 146. Worldia Competitive Strengths & Weaknesses
- Table 147. Hangzhou Chaoran Technology Basic Information, Manufacturing Base and Competitors
- Table 148. Hangzhou Chaoran Technology Major Business
- Table 149. Hangzhou Chaoran Technology Synthetic White Diamond Product and

Services

Table 150. Hangzhou Chaoran Technology Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hangzhou Chaoran Technology Recent Developments/Updates

Table 152. Hangzhou Chaoran Technology Competitive Strengths & Weaknesses

Table 153. SF Diamond Basic Information, Manufacturing Base and Competitors

Table 154. SF Diamond Major Business

Table 155. SF Diamond Synthetic White Diamond Product and Services

Table 156. SF Diamond Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. SF Diamond Recent Developments/Updates

Table 158. SF Diamond Competitive Strengths & Weaknesses

Table 159. Wonder Technologies Basic Information, Manufacturing Base and Competitors

Table 160. Wonder Technologies Major Business

Table 161. Wonder Technologies Synthetic White Diamond Product and Services

Table 162. Wonder Technologies Synthetic White Diamond Production (K Ct), Price (US\$/Ct), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Wonder Technologies Recent Developments/Updates

Table 164. Wonder Technologies Competitive Strengths & Weaknesses

Table 165. Global Key Players of Synthetic White Diamond Upstream (Raw Materials)

Table 166. Global Synthetic White Diamond Typical Customers

Table 167. Synthetic White Diamond Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Synthetic White Diamond Picture
- Figure 2. World Synthetic White Diamond Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Synthetic White Diamond Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Synthetic White Diamond Production (2021-2032) & (K Ct)
- Figure 5. World Synthetic White Diamond Average Price (2021-2032) & (US\$/Ct)
- Figure 6. World Synthetic White Diamond Production Value Market Share by Region (2021-2032)
- Figure 7. World Synthetic White Diamond Production Market Share by Region (2021-2032)
- Figure 8. North America Synthetic White Diamond Production (2021-2032) & (K Ct)
- Figure 9. Europe Synthetic White Diamond Production (2021-2032) & (K Ct)
- Figure 10. China Synthetic White Diamond Production (2021-2032) & (K Ct)
- Figure 11. Japan Synthetic White Diamond Production (2021-2032) & (K Ct)
- Figure 12. Synthetic White Diamond Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 15. World Synthetic White Diamond Consumption Market Share by Region (2021-2032)
- Figure 16. United States Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 17. China Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 18. Europe Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 19. Japan Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 20. South Korea Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 21. ASEAN Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 22. India Synthetic White Diamond Consumption (2021-2032) & (K Ct)
- Figure 23. Producer Shipments of Synthetic White Diamond by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Synthetic White Diamond Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Synthetic White Diamond Markets in 2025
- Figure 26. United States VS China: Synthetic White Diamond Production Value Market Share Comparison (2021 & 2025 & 2032)

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

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

Figure 29. United States Based Manufacturers Synthetic White Diamond Production Market Share 2025

Figure 30. China Based Manufacturers Synthetic White Diamond Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Synthetic White Diamond Production Market Share 2025

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

Figure 33. World Synthetic White Diamond Production Value Market Share by Type in 2025

Figure 34. CVD

Figure 35. HPHT

Figure 36. World Synthetic White Diamond Production Market Share by Type (2021-2032)

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

Figure 38. World Synthetic White Diamond Average Price by Type (2021-2032) & (US\$/Ct)

Figure 39. World Synthetic White Diamond Production Value by Shape, (USD Million), 2021 & 2025 & 2032

Figure 40. World Synthetic White Diamond Production Value Market Share by Shape in 2025

Figure 41. Round Cut

Figure 42. Cushion Cut

Figure 43. Oval Cut

Figure 44. Others

Figure 45. World Synthetic White Diamond Production Market Share by Shape (2021-2032)

Figure 46. World Synthetic White Diamond Production Value Market Share by Shape (2021-2032)

Figure 47. World Synthetic White Diamond Average Price by Shape (2021-2032) & (US\$/Ct)

Figure 48. World Synthetic White Diamond Production Value by Color, (USD Million), 2021 & 2025 & 2032

Figure 49. World Synthetic White Diamond Production Value Market Share by Color in

2025

Figure 50. D?F Colorless

Figure 51. G?J Near-Colorless

Figure 52. K?M Faint Color

Figure 53. World Synthetic White Diamond Production Market Share by Color (2021-2032)

Figure 54. World Synthetic White Diamond Production Value Market Share by Color (2021-2032)

Figure 55. World Synthetic White Diamond Average Price by Color (2021-2032) & (US\$/Ct)

Figure 56. World Synthetic White Diamond Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Synthetic White Diamond Production Value Market Share by Application in 2025

Figure 58. Ring

Figure 59. Necklace

Figure 60. Others

Figure 61. World Synthetic White Diamond Production Market Share by Application (2021-2032)

Figure 62. World Synthetic White Diamond Production Value Market Share by Application (2021-2032)

Figure 63. World Synthetic White Diamond Average Price by Application (2021-2032) & (US\$/Ct)

Figure 64. Synthetic White Diamond Industry Chain

Figure 65. Synthetic White Diamond Procurement Model

Figure 66. Synthetic White Diamond Sales Model

Figure 67. Synthetic White Diamond Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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