

Global Ultra Dispersed Diamond Market Growth 2026-2032

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Abstracts

The global Ultra Dispersed Diamond market size is predicted to grow from US\$ 70.55 million in 2025 to US\$ 100 million in 2032; it is expected to grow at a CAGR of 5.1% from 2026 to 2032.

In 2025, global Ultra Dispersed Diamond production reached 110.95 k kg, the average price was 650 US\$/kg. Ultra dispersed diamond refers to diamond microparticles with particle sizes ranging from nanometer to submicrometer, exhibiting high dispersibility and a large specific surface area. It is typically prepared through processes such as detonation synthesis with carbon-containing explosives, chemical vapor deposition, mechanical pulverization, or high-temperature and high-pressure processes, with detonation-based nanodiamonds being the most common. This material combines the high hardness, high wear resistance, high thermal conductivity, chemical stability, and low coefficient of friction of natural diamond. Furthermore, due to its extremely small particle size and high surface activity, its surface functionality can be modified through oxidation, hydrogenation, carboxylation, and amination, thereby improving its dispersion stability in aqueous or oil-based systems and its compatibility with matrix materials. Ultra-dispersed diamond is usually supplied in the form of powder, suspension, dispersion slurry, or composite additives. Key evaluation indicators include average particle size, particle size distribution, purity, specific surface area, degree of agglomeration, surface functional groups, zeta potential, and dispersion medium stability. It is mainly used in precision polishing, wear-resistant coatings, lubricant additives, electroplating and electroless plating, composite materials, thermal conductive materials and biomedical carriers, and can improve the hardness, wear resistance, surface smoothness, friction performance and thermal management capabilities of materials. The upstream of the Ultra Dispersed Diamond supply chain mainly includes carbon-containing explosives such as TNT and RDX, as well as

purification reagents and surface modifiers such as nitric acid and sulfuric acid. Representative suppliers include Orica, Dyno Nobel, Eurenco, BASF, Thermo Fisher Scientific, and Merck. Downstream applications include precision polishing, electroplating and wear-resistant coatings, lubricants, polymer composites, electronic thermal conductivity, energy storage, and biomedicine. Potential customers include semiconductor companies such as TSMC, Intel, and Samsung Electronics; companies in the optics and precision manufacturing fields such as Zeiss and Corning; and lubricant companies such as Shell, ExxonMobil, and Castrol. It also covers automotive parts, electroplating, battery materials, and scientific research and medical institutions.

The global Ultra Dispersed Diamond market is currently in a phase of upgrading from traditional industrial additives to high-performance functional materials. The Asia-Pacific region, leveraging its complete diamond synthesis, precision machining, electronics manufacturing, and surface treatment industrial chain, has become a region with the fastest growth in both production and consumption. North America is actively engaged in research and development in biomedicine, quantum sensing, advanced electronics, and high-end composite materials. Europe focuses on developing environmentally friendly coatings, precision manufacturing, and high-value-added surface modification applications. Market demand mainly comes from precision polishing, composite coatings, lubrication and friction reduction, thermal conductive materials, and electronic semiconductors. Future development will focus on particle size uniformity, high purification, surface functionalization, and stable water-based dispersion, gradually expanding into energy storage, bioimaging, and quantum technology. Major industry obstacles include the tendency of nanoparticles to agglomerate, insufficient batch consistency, high purification and surface treatment costs, long application validation cycles, and the lack of complete standardization in biosafety and environmental protection standards. With improvements in dispersion processes, large-scale production, and the maturation of downstream formulations, the added value of products is expected to increase. Judging from the combination of raw materials, processing difficulty and product grade, the industry average gross profit margin is usually about 30% to 45%, with ordinary industrial powders having a relatively low margin, while functional dispersions and high-purity special products can reach a higher level.

LP Information, Inc. (LPI) ' newest research report, the "Ultra Dispersed Diamond Industry Forecast" looks at past sales and reviews total world Ultra Dispersed Diamond sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultra Dispersed Diamond sales for 2026 through 2032. With Ultra Dispersed Diamond sales broken down by region, market sector and sub-sector, this report

provides a detailed analysis in US\$ millions of the world Ultra Dispersed Diamond industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Ultra Dispersed Diamond market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Dry Powder Type

Aqueous/Oil-Based Dispersion Type

Slurry Type

Segmentation by Particle Size:

Particle Size < 5 nm

Particle Size 5-20 nm

Particle Size > 20 nm

Segmentation by Preparation Process:

Detonation Method

High Temperature and High Pressure Method

Others

Segmentation by Application:

Precision Grinding and Polishing

Lubrication

Composite Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

PlasmaChem GmbH

Adamas Nanotechnologies

Carbodeon Ltd

Daicel Corporation

Pureon

Ray Techniques

Sinta

GRISH

Union Diamond

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ultra Dispersed Diamond market?

What factors are driving Ultra Dispersed Diamond market growth, globally and by region?

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

How do Ultra Dispersed Diamond market opportunities vary by end market size?

How does Ultra Dispersed Diamond break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Ultra Dispersed Diamond Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Ultra Dispersed Diamond by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Ultra Dispersed Diamond by Country/Region, 2021, 2025 & 2032
- 2.2 Ultra Dispersed Diamond Segment by Type
 - 2.2.1 Dry Powder Type
 - 2.2.2 Aqueous/Oil-Based Dispersion Type
 - 2.2.3 Slurry Type
 - 2.2.4 Ultra Dispersed Diamond Sales by Type
 - 2.2.4.1 Global Ultra Dispersed Diamond Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Ultra Dispersed Diamond Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Ultra Dispersed Diamond Sale Price by Type (2021-2026)
- 2.3 Ultra Dispersed Diamond Segment by Particle Size
 - 2.3.1 Particle Size ? 5 nm
 - 2.3.2 Particle Size 5?20 nm
 - 2.3.3 Particle Size ? 20 nm
 - 2.3.4 Ultra Dispersed Diamond Sales by Particle Size
 - 2.3.4.1 Global Ultra Dispersed Diamond Sales Market Share by Particle Size (2021-2026)
 - 2.3.4.2 Global Ultra Dispersed Diamond Revenue and Market Share by Particle Size (2021-2026)

- 2.3.4.3 Global Ultra Dispersed Diamond Sale Price by Particle Size (2021-2026)
- 2.4 Ultra Dispersed Diamond Segment by Preparation Process
 - 2.4.1 Detonation Method
 - 2.4.2 High Temperature and High Pressure Method
 - 2.4.3 Others
 - 2.4.4 Ultra Dispersed Diamond Sales by Preparation Process
 - 2.4.4.1 Global Ultra Dispersed Diamond Sales Market Share by Preparation Process (2021-2026)
 - 2.4.4.2 Global Ultra Dispersed Diamond Revenue and Market Share by Preparation Process (2021-2026)
 - 2.4.4.3 Global Ultra Dispersed Diamond Sale Price by Preparation Process (2021-2026)
- 2.5 Ultra Dispersed Diamond Segment by Application
 - 2.5.1 Precision Grinding and Polishing
 - 2.5.2 Lubrication
 - 2.5.3 Composite Materials
 - 2.5.4 Others
 - 2.5.5 Ultra Dispersed Diamond Sales by Application
 - 2.5.5.1 Global Ultra Dispersed Diamond Sale Market Share by Application (2021-2026)
 - 2.5.5.2 Global Ultra Dispersed Diamond Revenue and Market Share by Application (2021-2026)
 - 2.5.5.3 Global Ultra Dispersed Diamond Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Ultra Dispersed Diamond Breakdown Data by Company
 - 3.1.1 Global Ultra Dispersed Diamond Annual Sales by Company (2021-2026)
 - 3.1.2 Global Ultra Dispersed Diamond Sales Market Share by Company (2021-2026)
- 3.2 Global Ultra Dispersed Diamond Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Ultra Dispersed Diamond Revenue by Company (2021-2026)
 - 3.2.2 Global Ultra Dispersed Diamond Revenue Market Share by Company (2021-2026)
- 3.3 Global Ultra Dispersed Diamond Sale Price by Company
- 3.4 Key Manufacturers Ultra Dispersed Diamond Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Ultra Dispersed Diamond Product Location Distribution
 - 3.4.2 Players Ultra Dispersed Diamond Products Offered
- 3.5 Market Concentration Rate Analysis

- 3.5.1 Competition Landscape Analysis
- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ULTRA DISPERSED DIAMOND BY GEOGRAPHIC REGION

- 4.1 World Historic Ultra Dispersed Diamond Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Ultra Dispersed Diamond Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Ultra Dispersed Diamond Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Ultra Dispersed Diamond Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Ultra Dispersed Diamond Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Ultra Dispersed Diamond Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Ultra Dispersed Diamond Sales Growth
- 4.4 APAC Ultra Dispersed Diamond Sales Growth
- 4.5 Europe Ultra Dispersed Diamond Sales Growth
- 4.6 Middle East & Africa Ultra Dispersed Diamond Sales Growth

5 AMERICAS

- 5.1 Americas Ultra Dispersed Diamond Sales by Country
 - 5.1.1 Americas Ultra Dispersed Diamond Sales by Country (2021-2026)
 - 5.1.2 Americas Ultra Dispersed Diamond Revenue by Country (2021-2026)
- 5.2 Americas Ultra Dispersed Diamond Sales by Type (2021-2026)
- 5.3 Americas Ultra Dispersed Diamond Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Ultra Dispersed Diamond Sales by Region

- 6.1.1 APAC Ultra Dispersed Diamond Sales by Region (2021-2026)
- 6.1.2 APAC Ultra Dispersed Diamond Revenue by Region (2021-2026)
- 6.2 APAC Ultra Dispersed Diamond Sales by Type (2021-2026)
- 6.3 APAC Ultra Dispersed Diamond Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Ultra Dispersed Diamond by Country
 - 7.1.1 Europe Ultra Dispersed Diamond Sales by Country (2021-2026)
 - 7.1.2 Europe Ultra Dispersed Diamond Revenue by Country (2021-2026)
- 7.2 Europe Ultra Dispersed Diamond Sales by Type (2021-2026)
- 7.3 Europe Ultra Dispersed Diamond Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Ultra Dispersed Diamond by Country
 - 8.1.1 Middle East & Africa Ultra Dispersed Diamond Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Ultra Dispersed Diamond Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Ultra Dispersed Diamond Sales by Type (2021-2026)
- 8.3 Middle East & Africa Ultra Dispersed Diamond Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Ultra Dispersed Diamond
- 10.3 Manufacturing Process Analysis of Ultra Dispersed Diamond
- 10.4 Industry Chain Structure of Ultra Dispersed Diamond

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Ultra Dispersed Diamond Distributors
- 11.3 Ultra Dispersed Diamond Customer

12 WORLD FORECAST REVIEW FOR ULTRA DISPERSED DIAMOND BY GEOGRAPHIC REGION

- 12.1 Global Ultra Dispersed Diamond Market Size Forecast by Region
 - 12.1.1 Global Ultra Dispersed Diamond Forecast by Region (2027-2032)
 - 12.1.2 Global Ultra Dispersed Diamond Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Ultra Dispersed Diamond Forecast by Type (2027-2032)
- 12.7 Global Ultra Dispersed Diamond Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 PlasmaChem GmbH
 - 13.1.1 PlasmaChem GmbH Company Information
 - 13.1.2 PlasmaChem GmbH Ultra Dispersed Diamond Product Portfolios and

Specifications

13.1.3 PlasmaChem GmbH Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 PlasmaChem GmbH Main Business Overview

13.1.5 PlasmaChem GmbH Latest Developments

13.2 Adamas Nanotechnologies

13.2.1 Adamas Nanotechnologies Company Information

13.2.2 Adamas Nanotechnologies Ultra Dispersed Diamond Product Portfolios and Specifications

13.2.3 Adamas Nanotechnologies Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Adamas Nanotechnologies Main Business Overview

13.2.5 Adamas Nanotechnologies Latest Developments

13.3 Carbodeon Ltd

13.3.1 Carbodeon Ltd Company Information

13.3.2 Carbodeon Ltd Ultra Dispersed Diamond Product Portfolios and Specifications

13.3.3 Carbodeon Ltd Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Carbodeon Ltd Main Business Overview

13.3.5 Carbodeon Ltd Latest Developments

13.4 Daicel Corporation

13.4.1 Daicel Corporation Company Information

13.4.2 Daicel Corporation Ultra Dispersed Diamond Product Portfolios and Specifications

13.4.3 Daicel Corporation Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Daicel Corporation Main Business Overview

13.4.5 Daicel Corporation Latest Developments

13.5 Pureon

13.5.1 Pureon Company Information

13.5.2 Pureon Ultra Dispersed Diamond Product Portfolios and Specifications

13.5.3 Pureon Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Pureon Main Business Overview

13.5.5 Pureon Latest Developments

13.6 Ray Techniques

13.6.1 Ray Techniques Company Information

13.6.2 Ray Techniques Ultra Dispersed Diamond Product Portfolios and Specifications

13.6.3 Ray Techniques Ultra Dispersed Diamond Sales, Revenue, Price and Gross

Margin (2021-2026)

13.6.4 Ray Techniques Main Business Overview

13.6.5 Ray Techniques Latest Developments

13.7 Sinta

13.7.1 Sinta Company Information

13.7.2 Sinta Ultra Dispersed Diamond Product Portfolios and Specifications

13.7.3 Sinta Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 Sinta Main Business Overview

13.7.5 Sinta Latest Developments

13.8 GRISH

13.8.1 GRISH Company Information

13.8.2 GRISH Ultra Dispersed Diamond Product Portfolios and Specifications

13.8.3 GRISH Ultra Dispersed Diamond Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 GRISH Main Business Overview

13.8.5 GRISH Latest Developments

13.9 Union Diamond

13.9.1 Union Diamond Company Information

13.9.2 Union Diamond Ultra Dispersed Diamond Product Portfolios and Specifications

13.9.3 Union Diamond Ultra Dispersed Diamond Sales, Revenue, Price and Gross

Margin (2021-2026)

13.9.4 Union Diamond Main Business Overview

13.9.5 Union Diamond Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Ultra Dispersed Diamond Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Ultra Dispersed Diamond Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Dry Powder Type

Table 4. Major Players of Aqueous/Oil-Based Dispersion Type

Table 5. Major Players of Slurry Type

Table 6. Global Ultra Dispersed Diamond Sales by Type (2021-2026) & (kg)

Table 7. Global Ultra Dispersed Diamond Sales Market Share by Type (2021-2026)

Table 8. Global Ultra Dispersed Diamond Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Ultra Dispersed Diamond Revenue Market Share by Type (2021-2026)

Table 10. Global Ultra Dispersed Diamond Sale Price by Type (2021-2026) & (US\$/kg)

Table 11. Major Players of Particle Size ? 5 nm

Table 12. Major Players of Particle Size 5?20 nm

Table 13. Major Players of Particle Size ? 20 nm

Table 14. Global Ultra Dispersed Diamond Sales by Particle Size (2021-2026) & (kg)

Table 15. Global Ultra Dispersed Diamond Sales Market Share by Particle Size (2021-2026)

Table 16. Global Ultra Dispersed Diamond Revenue by Particle Size (2021-2026) & (\$ million)

Table 17. Global Ultra Dispersed Diamond Revenue Market Share by Particle Size (2021-2026)

Table 18. Global Ultra Dispersed Diamond Sale Price by Particle Size (2021-2026) & (US\$/kg)

Table 19. Major Players of Detonation Method

Table 20. Major Players of High Temperature and High Pressure Method

Table 21. Major Players of Others

Table 22. Global Ultra Dispersed Diamond Sales by Preparation Process (2021-2026) & (kg)

Table 23. Global Ultra Dispersed Diamond Sales Market Share by Preparation Process (2021-2026)

Table 24. Global Ultra Dispersed Diamond Revenue by Preparation Process (2021-2026) & (\$ million)

Table 25. Global Ultra Dispersed Diamond Revenue Market Share by Preparation Process (2021-2026)

Table 26. Global Ultra Dispersed Diamond Sale Price by Preparation Process (2021-2026) & (US\$/kg)

Table 27. Global Ultra Dispersed Diamond Sale by Application (2021-2026) & (kg)

Table 28. Global Ultra Dispersed Diamond Sale Market Share by Application (2021-2026)

Table 29. Global Ultra Dispersed Diamond Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Ultra Dispersed Diamond Revenue Market Share by Application (2021-2026)

Table 31. Global Ultra Dispersed Diamond Sale Price by Application (2021-2026) & (US\$/kg)

Table 32. Global Ultra Dispersed Diamond Sales by Company (2021-2026) & (kg)

Table 33. Global Ultra Dispersed Diamond Sales Market Share by Company (2021-2026)

Table 34. Global Ultra Dispersed Diamond Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Ultra Dispersed Diamond Revenue Market Share by Company (2021-2026)

Table 36. Global Ultra Dispersed Diamond Sale Price by Company (2021-2026) & (US\$/kg)

Table 37. Key Manufacturers Ultra Dispersed Diamond Producing Area Distribution and Sales Area

Table 38. Players Ultra Dispersed Diamond Products Offered

Table 39. Ultra Dispersed Diamond Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Ultra Dispersed Diamond Sales by Geographic Region (2021-2026) & (kg)

Table 43. Global Ultra Dispersed Diamond Sales Market Share Geographic Region (2021-2026)

Table 44. Global Ultra Dispersed Diamond Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Ultra Dispersed Diamond Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Ultra Dispersed Diamond Sales by Country/Region (2021-2026) & (kg)

Table 47. Global Ultra Dispersed Diamond Sales Market Share by Country/Region (2021-2026)

Table 48. Global Ultra Dispersed Diamond Revenue by Country/Region (2021-2026) &

(\$ millions)

Table 49. Global Ultra Dispersed Diamond Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Ultra Dispersed Diamond Sales by Country (2021-2026) & (kg)

Table 51. Americas Ultra Dispersed Diamond Sales Market Share by Country (2021-2026)

Table 52. Americas Ultra Dispersed Diamond Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Ultra Dispersed Diamond Sales by Type (2021-2026) & (kg)

Table 54. Americas Ultra Dispersed Diamond Sales by Application (2021-2026) & (kg)

Table 55. APAC Ultra Dispersed Diamond Sales by Region (2021-2026) & (kg)

Table 56. APAC Ultra Dispersed Diamond Sales Market Share by Region (2021-2026)

Table 57. APAC Ultra Dispersed Diamond Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Ultra Dispersed Diamond Sales by Type (2021-2026) & (kg)

Table 59. APAC Ultra Dispersed Diamond Sales by Application (2021-2026) & (kg)

Table 60. Europe Ultra Dispersed Diamond Sales by Country (2021-2026) & (kg)

Table 61. Europe Ultra Dispersed Diamond Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Ultra Dispersed Diamond Sales by Type (2021-2026) & (kg)

Table 63. Europe Ultra Dispersed Diamond Sales by Application (2021-2026) & (kg)

Table 64. Middle East & Africa Ultra Dispersed Diamond Sales by Country (2021-2026) & (kg)

Table 65. Middle East & Africa Ultra Dispersed Diamond Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Ultra Dispersed Diamond Sales by Type (2021-2026) & (kg)

Table 67. Middle East & Africa Ultra Dispersed Diamond Sales by Application (2021-2026) & (kg)

Table 68. Key Market Drivers & Growth Opportunities of Ultra Dispersed Diamond

Table 69. Key Market Challenges & Risks of Ultra Dispersed Diamond

Table 70. Key Industry Trends of Ultra Dispersed Diamond

Table 71. Ultra Dispersed Diamond Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Ultra Dispersed Diamond Distributors List

Table 74. Ultra Dispersed Diamond Customer List

Table 75. Global Ultra Dispersed Diamond Sales Forecast by Region (2027-2032) & (kg)

Table 76. Global Ultra Dispersed Diamond Revenue Forecast by Region (2027-2032) &

(\$ millions)

Table 77. Americas Ultra Dispersed Diamond Sales Forecast by Country (2027-2032) & (kg)

Table 78. Americas Ultra Dispersed Diamond Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Ultra Dispersed Diamond Sales Forecast by Region (2027-2032) & (kg)

Table 80. APAC Ultra Dispersed Diamond Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Ultra Dispersed Diamond Sales Forecast by Country (2027-2032) & (kg)

Table 82. Europe Ultra Dispersed Diamond Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Ultra Dispersed Diamond Sales Forecast by Country (2027-2032) & (kg)

Table 84. Middle East & Africa Ultra Dispersed Diamond Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Ultra Dispersed Diamond Sales Forecast by Type (2027-2032) & (kg)

Table 86. Global Ultra Dispersed Diamond Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Ultra Dispersed Diamond Sales Forecast by Application (2027-2032) & (kg)

Table 88. Global Ultra Dispersed Diamond Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. PlasmaChem GmbH Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors

Table 90. PlasmaChem GmbH Ultra Dispersed Diamond Product Portfolios and Specifications

Table 91. PlasmaChem GmbH Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 92. PlasmaChem GmbH Main Business

Table 93. PlasmaChem GmbH Latest Developments

Table 94. Adamas Nanotechnologies Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors

Table 95. Adamas Nanotechnologies Ultra Dispersed Diamond Product Portfolios and Specifications

Table 96. Adamas Nanotechnologies Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 97. Adamas Nanotechnologies Main Business

Table 98. Adamas Nanotechnologies Latest Developments
Table 99. Carbodeon Ltd Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors
Table 100. Carbodeon Ltd Ultra Dispersed Diamond Product Portfolios and Specifications
Table 101. Carbodeon Ltd Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 102. Carbodeon Ltd Main Business
Table 103. Carbodeon Ltd Latest Developments
Table 104. Daicel Corporation Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors
Table 105. Daicel Corporation Ultra Dispersed Diamond Product Portfolios and Specifications
Table 106. Daicel Corporation Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 107. Daicel Corporation Main Business
Table 108. Daicel Corporation Latest Developments
Table 109. Pureon Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors
Table 110. Pureon Ultra Dispersed Diamond Product Portfolios and Specifications
Table 111. Pureon Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 112. Pureon Main Business
Table 113. Pureon Latest Developments
Table 114. Ray Techniques Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors
Table 115. Ray Techniques Ultra Dispersed Diamond Product Portfolios and Specifications
Table 116. Ray Techniques Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 117. Ray Techniques Main Business
Table 118. Ray Techniques Latest Developments
Table 119. Sinta Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors
Table 120. Sinta Ultra Dispersed Diamond Product Portfolios and Specifications
Table 121. Sinta Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 122. Sinta Main Business
Table 123. Sinta Latest Developments

Table 124. GRISH Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors

Table 125. GRISH Ultra Dispersed Diamond Product Portfolios and Specifications

Table 126. GRISH Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 127. GRISH Main Business

Table 128. GRISH Latest Developments

Table 129. Union Diamond Basic Information, Ultra Dispersed Diamond Manufacturing Base, Sales Area and Its Competitors

Table 130. Union Diamond Ultra Dispersed Diamond Product Portfolios and Specifications

Table 131. Union Diamond Ultra Dispersed Diamond Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 132. Union Diamond Main Business

Table 133. Union Diamond Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Ultra Dispersed Diamond
- Figure 2. Ultra Dispersed Diamond Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Ultra Dispersed Diamond Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Ultra Dispersed Diamond Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Ultra Dispersed Diamond Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Ultra Dispersed Diamond Sales Market Share by Country/Region (2025)
- Figure 10. Ultra Dispersed Diamond Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Dry Powder Type
- Figure 12. Product Picture of Aqueous/Oil-Based Dispersion Type
- Figure 13. Product Picture of Slurry Type
- Figure 14. Global Ultra Dispersed Diamond Sales Market Share by Type in 2026
- Figure 15. Global Ultra Dispersed Diamond Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Particle Size ? 5 nm
- Figure 17. Product Picture of Particle Size 5?20 nm
- Figure 18. Product Picture of Particle Size ? 20 nm
- Figure 19. Global Ultra Dispersed Diamond Sales Market Share by Particle Size in 2026
- Figure 20. Global Ultra Dispersed Diamond Revenue Market Share by Particle Size (2021-2026)
- Figure 21. Product Picture of Detonation Method
- Figure 22. Product Picture of High Temperature and High Pressure Method
- Figure 23. Product Picture of Others
- Figure 24. Global Ultra Dispersed Diamond Sales Market Share by Preparation Process in 2026
- Figure 25. Global Ultra Dispersed Diamond Revenue Market Share by Preparation Process (2021-2026)
- Figure 26. Ultra Dispersed Diamond Consumed in Precision Grinding and Polishing
- Figure 27. Global Ultra Dispersed Diamond Market: Precision Grinding and Polishing (2021-2026) & (kg)
- Figure 28. Ultra Dispersed Diamond Consumed in Lubrication

Figure 29. Global Ultra Dispersed Diamond Market: Lubrication (2021-2026) & (kg)

Figure 30. Ultra Dispersed Diamond Consumed in Composite Materials

Figure 31. Global Ultra Dispersed Diamond Market: Composite Materials (2021-2026) & (kg)

Figure 32. Ultra Dispersed Diamond Consumed in Others

Figure 33. Global Ultra Dispersed Diamond Market: Others (2021-2026) & (kg)

Figure 34. Global Ultra Dispersed Diamond Sale Market Share by Application (2025)

Figure 35. Global Ultra Dispersed Diamond Revenue Market Share by Application in 2025

Figure 36. Ultra Dispersed Diamond Sales by Company in 2025 (kg)

Figure 37. Global Ultra Dispersed Diamond Sales Market Share by Company in 2025

Figure 38. Ultra Dispersed Diamond Revenue by Company in 2025 (\$ millions)

Figure 39. Global Ultra Dispersed Diamond Revenue Market Share by Company in 2025

Figure 40. Global Ultra Dispersed Diamond Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global Ultra Dispersed Diamond Revenue Market Share by Geographic Region in 2025

Figure 42. Americas Ultra Dispersed Diamond Sales 2021-2026 (kg)

Figure 43. Americas Ultra Dispersed Diamond Revenue 2021-2026 (\$ millions)

Figure 44. APAC Ultra Dispersed Diamond Sales 2021-2026 (kg)

Figure 45. APAC Ultra Dispersed Diamond Revenue 2021-2026 (\$ millions)

Figure 46. Europe Ultra Dispersed Diamond Sales 2021-2026 (kg)

Figure 47. Europe Ultra Dispersed Diamond Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Ultra Dispersed Diamond Sales 2021-2026 (kg)

Figure 49. Middle East & Africa Ultra Dispersed Diamond Revenue 2021-2026 (\$ millions)

Figure 50. Americas Ultra Dispersed Diamond Sales Market Share by Country in 2025

Figure 51. Americas Ultra Dispersed Diamond Revenue Market Share by Country (2021-2026)

Figure 52. Americas Ultra Dispersed Diamond Sales Market Share by Type (2021-2026)

Figure 53. Americas Ultra Dispersed Diamond Sales Market Share by Application (2021-2026)

Figure 54. United States Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Ultra Dispersed Diamond Sales Market Share by Region in 2025

Figure 59. APAC Ultra Dispersed Diamond Revenue Market Share by Region (2021-2026)

Figure 60. APAC Ultra Dispersed Diamond Sales Market Share by Type (2021-2026)

Figure 61. APAC Ultra Dispersed Diamond Sales Market Share by Application (2021-2026)

Figure 62. China Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 66. India Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 69. Europe Ultra Dispersed Diamond Sales Market Share by Country in 2025

Figure 70. Europe Ultra Dispersed Diamond Revenue Market Share by Country (2021-2026)

Figure 71. Europe Ultra Dispersed Diamond Sales Market Share by Type (2021-2026)

Figure 72. Europe Ultra Dispersed Diamond Sales Market Share by Application (2021-2026)

Figure 73. Germany Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 74. France Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa Ultra Dispersed Diamond Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa Ultra Dispersed Diamond Sales Market Share by Type (2021-2026)

Figure 80. Middle East & Africa Ultra Dispersed Diamond Sales Market Share by Application (2021-2026)

Figure 81. Egypt Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries Ultra Dispersed Diamond Revenue Growth 2021-2026 (\$

millions)

Figure 86. Manufacturing Cost Structure Analysis of Ultra Dispersed Diamond in 2026

Figure 87. Manufacturing Process Analysis of Ultra Dispersed Diamond

Figure 88. Industry Chain Structure of Ultra Dispersed Diamond

Figure 89. Channels of Distribution

Figure 90. Global Ultra Dispersed Diamond Sales Market Forecast by Region
(2027-2032)

Figure 91. Global Ultra Dispersed Diamond Revenue Market Share Forecast by Region
(2027-2032)

Figure 92. Global Ultra Dispersed Diamond Sales Market Share Forecast by Type
(2027-2032)

Figure 93. Global Ultra Dispersed Diamond Revenue Market Share Forecast by Type
(2027-2032)

Figure 94. Global Ultra Dispersed Diamond Sales Market Share Forecast by Application
(2027-2032)

Figure 95. Global Ultra Dispersed Diamond Revenue Market Share Forecast by
Application (2027-2032)

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