

# Global Quantum-grade Diamond Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Quantum-grade Diamond market size was valued at US\$ 988 million in 2025 and is forecast to a readjusted size of US\$ 1900 million by 2032 with a CAGR of 9.8% during review period.

In 2025, global Quantum-Grade Diamond production reached approximately 120,000 units, average price \$8,000 / unit, with gross margin 40%

Quantum-Grade Diamond refers to an ultra-high-purity, synthetically engineered single-crystal diamond material engineered with structural and isotopic precision far exceeding that of gemstone or standard industrial abrasives. The defining characteristic of this material is its near-perfect carbon-12 isotopically purified lattice, which minimizes nuclear spin bath noise caused by naturally occurring C13 isotopes. Within this pristine matrix, specific atomistic point defects—most notably Nitrogen-Vacancy (NV) centers—are precisely introduced via targeted ion implantation and high-temperature vacuum annealing. Due to diamond's wide bandgap and rigid crystalline structure, the electron spins of these NV centers can maintain exceptionally long coherence times (up to milliseconds) even at room temperature, while allowing for purely optical initialization and readout. Consequently, quantum-grade diamond serves as a foundational hardware platform in quantum information science, deployed extensively in room-temperature quantum sensing (for ultra-precise magnetic, electrical, and thermal mapping), microwave quantum waveguides, and solid-state quantum memory registers for distributed quantum networks.

This report is a detailed and comprehensive analysis for global Quantum-grade Diamond market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Quantum-grade Diamond market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum-grade Diamond market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum-grade Diamond market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum-grade Diamond market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Quantum-grade Diamond
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Quantum-grade Diamond market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include QuantumDiamonds, Element Six, Diatope, Supercrystal New Materials, ACS Material, Quantum Brilliance, Great Lakes Crystal Technologies, Coherent, etc.

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

## Market Segmentation

Quantum-grade Diamond market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

NV Centers

SiV Centers

SnV Centers

### Market segment by Materials

Bulk Diamond

Nanodiamonds

### Market segment by Application

Quantum Sensors

Quantum Computing

Quantum Networking

Others

### Major players covered

QuantumDiamonds

Element Six

Diatope

Supercrystal New Materials

ACS Material

Quantum Brilliance

Great Lakes Crystal Technologies

Coherent

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Quantum-grade Diamond product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum-grade Diamond, with price, sales quantity, revenue, and global market share of Quantum-grade Diamond from 2021 to 2026.

Chapter 3, the Quantum-grade Diamond competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quantum-grade Diamond breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Quantum-grade Diamond market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quantum-grade Diamond.

Chapter 14 and 15, to describe Quantum-grade Diamond sales channel, distributors, customers, research findings and conclusion.

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