

Global Quantum-grade Diamond Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum-grade Diamond market size is expected to reach \$ 1900 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

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 studies the global Quantum-grade Diamond production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum-

grade 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 Quantum-grade Diamond that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum-grade Diamond total production and demand, 2021-2032, (Units)

Global Quantum-grade Diamond total production value, 2021-2032, (USD Million)

Global Quantum-grade Diamond production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Quantum-grade Diamond consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Quantum-grade Diamond domestic production, consumption, key domestic manufacturers and share

Global Quantum-grade Diamond production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Quantum-grade Diamond production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Quantum-grade Diamond production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Quantum-grade 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Quantum-grade Diamond market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Quantum-grade Diamond Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum-grade Diamond Market, Segmentation by Type:

NV Centers

SiV Centers

SnV Centers

Global Quantum-grade Diamond Market, Segmentation by Materials:

Bulk Diamond

Nanodiamonds

Global Quantum-grade Diamond Market, Segmentation by Application:

Quantum Sensors

Quantum Computing

Quantum Networking

Others

Companies Profiled:

QuantumDiamonds

Element Six

Diatope

Supercrystal New Materials

ACS Material

Quantum Brilliance

Great Lakes Crystal Technologies

Coherent

Key Questions Answered:

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

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