

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

<https://marketpublishers.com/r/G3D47B2E791FEN.html>

Date: February 2026

Pages: 133

Price: US\$ 4,480.00 (Single User License)

ID: G3D47B2E791FEN

## Abstracts

The global Industrial Synthetic Diamond market size is expected to reach \$ 10534 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global Industrial Synthetic Diamond production reached approximately 2,461 tons, with an average global market price of around 2,580.6 USD/Kg.

Industrial Synthetic Diamond refers to artificially synthesized diamond materials produced through high-pressure high-temperature (HPHT) or chemical vapor deposition (CVD) technologies, with physical and chemical properties comparable to natural diamonds, including extreme hardness, high thermal conductivity, wear resistance and chemical stability. Unlike gem-grade synthetic diamonds used for jewelry, it is mainly used in industrial scenarios, processed into grains, films or composites to adapt to different application needs. It serves as a core functional material in cutting, grinding, drilling, electronic thermal management and precision machining fields, replacing traditional materials such as natural diamond, cubic boron nitride and cemented carbide in many high-demand scenarios.

Driven by the rapid development of precision manufacturing, new energy, semiconductor and aerospace industries, the market demand for industrial synthetic diamond continues to rise, with rigid demand from machinery processing, oil drilling and electronic component manufacturing industries, and incremental demand from semiconductor thermal management, photovoltaic wafer cutting and medical device fields. Technological bottlenecks in large-size CVD diamond production and cost differences with traditional substitute materials are the main industry constraints. Business opportunities lie in advancing CVD technology to improve product quality and

reduce production costs, developing customized products for high-end fields such as semiconductors, expanding application scenarios through material composite technology, and seizing the market dividend brought by the replacement of traditional materials in emerging industries.

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

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

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

Global Industrial Synthetic Diamond total production and demand, 2021-2032, (Tons)

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

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

Global Industrial Synthetic Diamond consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

Global Industrial Synthetic Diamond production by Synthesis Method, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Industrial Synthetic Diamond production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Industrial Synthetic 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 De Beers, Applied Diamond, EID, Hyperion Materials & Technologies, ILJIN Diamond, CR GEMS, HongJing, SF-Diamond, Yalong, Henan Huanghe Whirlwind, 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 Industrial Synthetic Diamond market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Synthesis Method, 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 Industrial Synthetic Diamond Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Industrial Synthetic Diamond Market, Segmentation by Synthesis Method:**

High-Pressure High-Temperature (HPHT) Diamond

Chemical Vapor Deposition (CVD) Diamond

Detonation Synthesis Diamond

### Global Industrial Synthetic Diamond Market, Segmentation by Morphology:

Monocrystalline Diamond Grit

Polycrystalline Diamond (PCD) Composite

### Global Industrial Synthetic Diamond Market, Segmentation by Purity & Grade:

High-Purity Electronic Grade Diamond

Abrasive Grade Diamond

Thermal Conductivity Grade Diamond

Optical Grade Diamond

### Global Industrial Synthetic Diamond Market, Segmentation by Application:

Mechanical Processing & Abrasion

Electronic & Semiconductor

Optical & Laser Equipment

Oil & Gas Drilling

Others

### Companies Profiled:

De Beers

Applied Diamond

EID

Hyperion Materials & Technologies

ILJIN Diamond

CR GEMS

HongJing

SF-Diamond

Yalong

Henan Huanghe Whirlwind

Sino-crystal Diamond

Funik Ultrahard Material

Scio Diamond Technology

**Key Questions Answered:**

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

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