

Global Industrial Synthetic Diamond Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GAB3D8F07DD2EN.html>

Date: February 2026

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: GAB3D8F07DD2EN

Abstracts

According to our (Global Info Research) latest study, the global Industrial Synthetic Diamond market size was valued at US\$ 6534 million in 2025 and is forecast to a readjusted size of US\$ 10534 million by 2032 with a CAGR of 7.0% during review period.

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 is a detailed and comprehensive analysis for global Industrial Synthetic Diamond market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Synthesis Method 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 Industrial Synthetic Diamond market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Industrial Synthetic Diamond market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Industrial Synthetic Diamond market size and forecasts, by Synthesis Method and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Industrial Synthetic Diamond market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 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 Industrial Synthetic 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 Industrial Synthetic 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 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.

Market Segmentation

Industrial Synthetic Diamond market is split by Synthesis Method and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Synthesis Method, 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 Synthesis Method

High-Pressure High-Temperature (HPHT) Diamond

Chemical Vapor Deposition (CVD) Diamond

Detonation Synthesis Diamond

Market segment by Morphology

Monocrystalline Diamond Grit

Polycrystalline Diamond (PCD) Composite

Market segment by Purity & Grade

High-Purity Electronic Grade Diamond

Abrasive Grade Diamond

Thermal Conductivity Grade Diamond

Optical Grade Diamond

Market segment by Application

Mechanical Processing & Abrasion

Electronic & Semiconductor

Optical & Laser Equipment

Oil & Gas Drilling

Others

Major players covered

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

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 Industrial Synthetic Diamond product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Industrial Synthetic 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 Synthesis Method and by Application, with sales market share and growth rate by Synthesis Method, 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 Industrial Synthetic Diamond market forecast, by regions, by Synthesis

Method, 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 Industrial Synthetic Diamond.

Chapter 14 and 15, to describe Industrial Synthetic Diamond sales channel, distributors, customers, research findings and conclusion.

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