

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

<https://marketpublishers.com/r/G6856C8893DAEN.html>

Date: January 2026

Pages: 121

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

ID: G6856C8893DAEN

Abstracts

The global Synthetic Diamond market size is expected to reach \$ 3574 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Synthetic diamond is usually produced by subjecting graphite to very high temperatures and pressures. Synthetic diamond resembles natural diamond in most fundamental properties, retaining the extreme hardness, broad transparency (when pure), high thermal conductivity, and high electrical resistivity for which diamond is highly prized. Because synthesis is an expensive process, large stones of gem quality are rarely made. Instead, most synthetic diamond is produced as grit or small crystals that are used to provide hard coatings for industrial equipment such as grinding wheels, machine tools, wire-drawing dies, quarrying saws, and mining drills. In addition, diamond films can be grown on various materials by subjecting carbon-containing gas to extreme heat, and those layers can be used in cutting tools, windows for optical devices, or substrates for semiconductors.

Global key players of synthetic diamond include Element Six, Zhongnan Diamond, Huanghe Whirlwind, Diamond Foundry, Sino-Crystal Diamond, etc., mainly located in North America, Europe, China, Southeast Asia, Japan, and South Korea. The top five manufacturers occupy more than 70% of the market share, with the largest producer being Element Six, accounting for 26%. North America is the largest market with about 47% market share, followed by Asia Pacific with 36%. In terms of product type, HPHT synthetic diamond is the largest segment with a share of about 59%. Also in terms of downstream, diamond is the largest downstream segment with a 35% share.

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

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

Highlights and key features of the study

Global Synthetic Diamond total production and demand, 2021-2032, (Million Carats)

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

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

Global Synthetic Diamond consumption by region & country, CAGR, 2021-2032 & (Million Carats)

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

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

Global Synthetic Diamond production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Carats)

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

This report profiles key players in the global 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 Element Six, Zhongnan Diamond, Huanghe Whirlwind, Diamond Foundry, Sino-Crystal Diamond, Ningbo Crysdiem Technology, Ila Technologies, Henan Liliang Diamond, ILJIN Diamond, Sumitomo Electric Industries, 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 Synthetic Diamond market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Million Carats) and average price (US\$/K Carats) 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 Synthetic Diamond Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synthetic Diamond Market, Segmentation by Type:

HPHT

CVD

Global Synthetic Diamond Market, Segmentation by Application:

Construction Material

Machining and Cutting Tools

Diamond

Others

Companies Profiled:

Element Six

Zhongnan Diamond

Huanghe Whirlwind

Diamond Foundry

Sino-Crystal Diamond

Ningbo Crysdiam Technology

Ila Technologies

Henan Liliang Diamond

ILJIN Diamond

Sumitomo Electric Industries

Shanghai Zhengshi Technology

CR GEMS

Anhui Hongjing New Materials

Henan Yalong Superhard Materials

Key Questions Answered:

1. How big is the global Synthetic Diamond market?
2. What is the demand of the global Synthetic Diamond market?
3. What is the year over year growth of the global Synthetic Diamond market?
4. What is the production and production value of the global Synthetic Diamond market?

5. Who are the key producers in the global Synthetic Diamond market?
6. What are the growth factors driving the market demand?

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