

Global Synthetic Diamond Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Synthetic Diamond market size will reach 2,421.90 Million USD in 2025 and is projected to reach 3,753.72 Million USD by 2032, with a CAGR of 6.46% (2025-2032). Notably, the China Synthetic Diamond market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Synthetic diamonds, also known as lab-grown or man-made diamonds, are produced through artificial processes that mimic the natural conditions under which diamonds form in the Earth's mantle. These processes typically involve either high-pressure high-temperature (HPHT) or chemical vapor deposition (CVD) methods. In HPHT, carbon is subjected to extreme pressure and temperature, simulating conditions found deep within the Earth. In CVD, a gas mixture containing carbon is heated to deposit carbon atoms onto a substrate, gradually building up a diamond crystal. Synthetic diamonds exhibit the same chemical composition and crystal structure as natural diamonds, consisting of carbon atoms arranged in a diamond lattice. They possess similar physical, optical, and chemical properties to natural diamonds, including exceptional hardness, brilliance, and thermal conductivity. Synthetic diamonds are used in various industries, including jewelry, cutting and polishing tools, electronics, and scientific research, offering a sustainable and cost-effective alternative to mined diamonds.

The major global manufacturers of Synthetic Diamond 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, Shanghai Zhengshi Technology, CR GEMS, Anhui Hongjing New Materials, Henan Yalong Superhard Materials, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Synthetic Diamond. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Synthetic Diamond market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Synthetic Diamond market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Synthetic Diamond industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Synthetic Diamond Include:

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

Synthetic Diamond Product Segment Include:

HPHT

CVD

Synthetic Diamond Product Application Include:

Construction Material

Machining and Cutting Tools

Diamond

Others

Chapter Scope

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