

Global Superhard Materials Market Growth 2025-2031

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Abstracts

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The global Superhard Materials market size is predicted to grow from US\$ 1360 million in 2025 to US\$ 1644 million in 2031; it is expected to grow at a CAGR of 3.2% from 2025 to 2031.

A superhard material is a material with a hardness value exceeding 40 gigapascals (GPa) when measured by the Vickers hardness test. They are highly incompressible solids with high electron density and high bond covalency. As a result of their unique properties, these materials are of great interest in many industrial areas including, but not limited to, abrasives, polishing and cutting tools and wear-resistant and protective coatings.

Diamond is the hardest known material to date, with a Vickers hardness in the range of 70–150 GPa. Diamond demonstrates both high thermal conductivity and electrically insulating properties and much attention has been put into finding practical applications of this material. However, diamond has several limitations for mass industrial application, including its high cost and oxidation at temperatures above 800 °C. In addition, diamond dissolves in iron and forms iron carbides at high temperatures and therefore is inefficient in cutting ferrous materials including steel. Therefore, recent research of superhard materials has been focusing on compounds which would be thermally and chemically more stable than pure diamond.

Superhard materials can be generally classified into two categories: intrinsic compounds and extrinsic compounds. The intrinsic group includes diamond, cubic boron nitride (c-BN), carbon nitrides and ternary compounds such as B-N-C, which possess an innate hardness. Conversely, extrinsic materials are those that have superhardness and other mechanical properties that are determined by their

microstructure rather than composition. An example of extrinsic superhard material is nanocrystalline diamond known as aggregated diamond nanorods.

Global Superhard Materials main players include Element Six, Sandvik, ILJIN Diamond, Zhongnan Diamond, Huanghe Whirlwind, Sino-Crystal Diamond, etc., totally accounting for about 75% of market. Asia-Pacific is the largest market, with a share over 53%. As for the types of products, it can be divided into Synthetic Diamond and Cubic Boron Nitride. The most common product is Synthetic Diamond, with a share over 92%. In terms of applications, it is widely used in Stone and Construction, Abrasives Category, Composite Polycrystalline Tool and Others. The most application is in Stone and Construction, with a share over 40%.

LP Information, Inc. (LPI) ' newest research report, the "Superhard Materials Industry Forecast" looks at past sales and reviews total world Superhard Materials sales in 2024, providing a comprehensive analysis by region and market sector of projected Superhard Materials sales for 2025 through 2031. With Superhard Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Superhard Materials industry.

This Insight Report provides a comprehensive analysis of the global Superhard Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Superhard Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Superhard Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Superhard Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Superhard Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Superhard Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Synthetic Diamond

Cubic Boron Nitride

Segmentation by Application:

Stone and Construction

Abrasives Category

Composite Polycrystalline Tool

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Element Six

Sandvik

ILJIN Diamond

Zhongnan Diamond

Huanghe Whirlwind

Sino-Crystal Diamond

JINQU Superhard

CR GEMS

Anhui HongJing

SF-Diamond

Yalong Superhard Materials

Saint-Gobain

Sumitomo Electric Industries

Tomei Diamond

FUNIK

Famous Diamond

Besco Superabrasives

Zhengzhou Zhong Peng

Key Questions Addressed in this Report

What is the 10-year outlook for the global Superhard Materials market?

What factors are driving Superhard Materials market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Superhard Materials market opportunities vary by end market size?

How does Superhard Materials break out by Type, by Application?

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