

Global Super Hard Material Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Super Hard Material market size was valued at USD 1345.2 million in 2023 and is forecast to a readjusted size of USD 1309.6 million by 2030 with a CAGR of -0.4% during review period.

This report studies the Super Hard Material (Superhard Materials) market, from angles of Company, regions, product types and end industries, to analyze the status and the future.

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.

According to the report, Asia-Pacific accounts the biggest market share of the global total Super Hard Materials market, both for production and consumption. The production of Super Hard Materials in China took over 85% of total global output. However, high end products are still concentrated in Europe, North America, Japan and Korea area, due to the technology and R&D restrictions.

There are many participants in this market, Element Six, Sandvik, ILJIN Diamond, Zhongnan Diamond, Huanghe Whirlwind and some others are leading the market with about 68% market shares.

Superhard materials are widely used for Composite Polycrystalline Tool, Abrasives and Construction machineries. The downstream market is continuing to expand.

Superhard materials market is segmented into diamond, cubic boron nitride and others including boron carbon nitrides, metal borides, etc. Diamond covers over 80% of the total market. It is majorly used for grinding, cutting, and machining materials including titanium alloys, cemented carbides, ceramics, quartz stone, asphalt, glass, etc. These are also used in wire drawing dies, dressers and drill bits.

The Global Info Research report includes an overview of the development of the Super Hard Material industry chain, the market status of Stone and Construction (Synthetic Diamond, Cubic Boron Nitride), Abrasives Category (Synthetic Diamond, Cubic Boron Nitride), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Super Hard Material.

Regionally, the report analyzes the Super Hard Material markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Super Hard Material market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Super Hard Material market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Super Hard Material industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Ct), revenue generated, and market share of different by Type (e.g., Synthetic Diamond, Cubic Boron Nitride).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Super Hard Material market.

Regional Analysis: The report involves examining the Super Hard Material market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Super Hard Material market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Super Hard Material:

Company Analysis: Report covers individual Super Hard Material manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Super Hard Material This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Stone and

Construction, Abrasives Category).

Technology Analysis: Report covers specific technologies relevant to Super Hard Material. It assesses the current state, advancements, and potential future developments in Super Hard Material areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Super Hard Material market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Super Hard Material market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Synthetic Diamond

Cubic Boron Nitride

Market segment by Application

Stone and Construction

Abrasives Category

Composite Polycrystalline Tool

Others

Major players covered

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

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 Super Hard Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Super Hard Material, with price, sales, revenue and global market share of Super Hard Material from 2019 to 2024.

Chapter 3, the Super Hard Material competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Super Hard Material breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Super Hard Material market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Super Hard Material.

Chapter 14 and 15, to describe Super Hard Material sales channel, distributors, customers, research findings and conclusion.

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