

Global Superhard Materials Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

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 our (Global Info Research) latest study, the global Superhard Materials market size was valued at US\$ 1392 million in 2023 and is forecast to a readjusted size of USD 1711 million by 2030 with a CAGR of 3.0% during review period.

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%.

This report is a detailed and comprehensive analysis for global Superhard Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 2024, are provided.

Key Features:

Global Superhard Materials market size and forecasts, in consumption value (\$ Million), sales quantity (M Ct), and average selling prices (USD/K Ct), 2019-2030

Global Superhard Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Ct), and average selling prices (USD/K Ct), 2019-2030

Global Superhard Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Ct), and average selling prices (USD/K Ct), 2019-2030

Global Superhard Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (M Ct), and ASP (USD/K Ct), 2019-2024

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 Superhard Materials

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 Superhard Materials 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 Element Six, Sandvik, ILJIN Diamond, Zhongnan Diamond, Huanghe Whirlwind, Sino-Crystal Diamond, JINQU Superhard, CR GEMS, Anhui HongJing, SF-Diamond, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Superhard Materials 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. This analysis can help you expand your business by targeting qualified niche markets.

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

Besco Superabrasives

Zhengzhou Zhong Peng

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 Superhard Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Superhard Materials, with price, sales quantity, revenue, and global market share of Superhard Materials from 2019 to 2024.

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

Chapter 4, the Superhard Materials 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 by Application, with sales market share and growth rate by Type, by 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 2019 to 2024. and Superhard Materials market forecast, by regions, by Type, and by 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 Superhard Materials.

Chapter 14 and 15, to describe Superhard Materials sales channel, distributors, customers, research findings and conclusion.

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