

Global Super Hard Material (Superhard Materials) Market 2019 by Manufacturers, Regions, Type and Application, Forecast to 2024

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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.

SCOPE OF THE REPORT:

According to the report, Asia-Pacific accounts the biggest market share of the global total superhard materials market, both for production and consumption. In 2016, the production of superhard materials in China was about 15041.8 Million Ct, about 93.08% of total global output. However, high end products are still concentrated in Europe and North America area, due to the technology and R&D restrictions. With the progress of technology, the price of superhard material may gradually decreased in the future. However, the overall gross margin of superhard material is still very high. With also relatively high technical threshold and growing need of high end products, many small manufacturers spread in China will be eliminated.

The worldwide market for Super Hard Material (Superhard Materials) is expected to grow at a CAGR of roughly 4.5% over the next five years, will reach 1440 million US\$ in 2024, from 1110 million US\$ in 2019, according to a new GIR (Global Info Research) study.

This report focuses on the Super Hard Material (Superhard Materials) in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Market Segment by Manufacturers, this report covers

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 Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Synthetic Diamond

Cubic Boron Nitride

Market Segment by Applications, can be divided into

Stone and Construction

Abrasives Category

Composite Polycrystalline Tool

Others

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Super Hard Material (Superhard Materials) product scope, market overview, market opportunities, market driving force and market risks.

Chapter 2, to profile the top manufacturers of Super Hard Material (Superhard Materials), with price, sales, revenue and global market share of Super Hard Material (Superhard Materials) in 2017 and 2018.

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

Chapter 4, the Super Hard Material (Superhard Materials) breakdown data are shown at the regional level, to show the sales, revenue and growth by regions, from 2014 to 2019.

Chapter 5, 6, 7, 8 and 9, to break the sales data at the country level, with sales, revenue and market share for key countries in the world, from 2014 to 2019.

Chapter 10 and 11, to segment the sales by type and application, with sales market share and growth rate by type, application, from 2014 to 2019.

Chapter 12, Super Hard Material (Superhard Materials) market forecast, by regions, type and application, with sales and revenue, from 2019 to 2024.

Chapter 13, 14 and 15, to describe Super Hard Material (Superhard Materials) sales channel, distributors, customers, research findings and conclusion, appendix and data

source.

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