

# 2018-2023 Global Super Hard Material (Superhard Materials) Consumption Market Report

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Super Hard Material (Superhard Materials) market for 2018-2023.

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 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. Over the next five years, LPI(LP Information) projects that Super Hard Material (Superhard Materials) will register a 4.4% CAGR in terms of revenue, reach US\$ 1430 million by 2023, from US\$ 1110 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Super Hard Material (Superhard Materials) market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product 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

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

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

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

#### Research objectives

To study and analyze the global Super Hard Material (Superhard Materials) consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Super Hard Material (Superhard Materials) market by identifying its various subsegments.

Focuses on the key global Super Hard Material (Superhard Materials) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Super Hard Material (Superhard Materials) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Super Hard Material (Superhard Materials) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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