

# Superhard Materials Market by Manufacturers, Types, Regions and Applications Research Report Forecast to 2022

*Superhard Materials Market 2017 – Global Industry Analysis and Forecast to 2022*

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WiseGuyReports.Com Publish a New Market Research Report On – “Superhard Materials Market by Manufacturers, Types, Regions and Applications Research Report Forecast to 2022”.

"A superhard material is a material with a hardness value exceeding 40 gigapascals (GPa) when measured by the Vickers hardness test. 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, abrasives, polishing and cutting tools and wear-resistant and protective coatings.

The hardness of a material is directly related to its incompressibility, elasticity and resistance to change in shape. A superhard material has high shear modulus, high bulk modulus and does not deform plastically. Should have a defect-free, isotropic lattice. This greatly reduces structural deformations that can lower the strength of the material. Traditionally, high-pressure and high-temperature (HPHT) conditions have been used to synthesize superhard materials, but recent superhard material syntheses aim at using less energy and lower cost materials.

Vickers hardness of selected hard materials  
Material Vickers hardness (GPa)  
Diamond 115 c-BC2N 76 c-BN 48 OsB2 37 B4C 30 ReB2 ~20

Superhard material industry chain mainly involves the following three aspects: monocrystalline superhard materials (including diamond, cubic boron nitride, etc.), composite superhard materials (including clad sheet for cutting tools, clad sheet for oil/gas, clad sheet and wire drawing die blanks used for coal/mining) and super-hard materials and tools (including diamond saw blades, polycrystalline diamond drawing dies and drills, etc.).

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"Superhard Materials Market"

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Scope of the Report:

This report focuses on the 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

Sandvik

Element Six

Sumitomo Electric

ILJIN

Zhongnan Diamond,

Henan Huanghe Whirlwind

SF Diamond

Zhengzhou Sino-Crystal Diamond

FUNIK

Market Segment by Regions, regional analysis covers

North America (USA, Canada and Mexico)

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

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

South America, Middle East and Africa

Market Segment by Type, covers

Diamond

CBN

Others

Market Segment by Applications, can be divided into

Stone and Construction

Abrasives category

Composite polycrystalline tool

Other

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There are 13 Chapters to deeply display the global Superhard Materials market.

Chapter 1, to describe Superhard Materials Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Superhard Materials, with sales, revenue, and price of Superhard Materials, in 2015 and 2016;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2015 and 2016;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Superhard Materials, for each region, from 2011 to 2016;

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