

Global Superhard Materials Market Analysis 2015-2019 and Forecast 2020-2025

<https://marketpublishers.com/r/GE929AA09C0EN.html>

Date: February 2020

Pages: 81

Price: US\$ 2,980.00 (Single User License)

ID: GE929AA09C0EN

Abstracts

SNAPSHOT

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.)

The global Superhard Materials market size is estimated at xxx million USD with a CAGR xx% from 2015-2019 and is expected to reach xxx Million USD in 2020 with a CAGR xx% from 2020 to 2025. The report begins from overview of Industry Chain structure, and describes industry environment, then analyses market size and forecast of Superhard Materials by product, region and application, in addition, this report

introduces market competition situation among the vendors and company profile, besides, market price analysis and value chain features are covered in this report.

Product Type Coverage (Market Size & Forecast, Major Company of Product Type etc.):

Diamond

CBN

Others

Company Coverage (Company Profile, Sales Revenue, Price, Gross Margin, Main Products etc.):

Sandvik

Element Six

Sumitomo Electric

ILJIN

Zhongnan Diamond,

Henan Huanghe Whirlwind

SF Diamond

Zhengzhou Sino-Crystal Diamond

FUNIK

Application Coverage (Market Size & Forecast, Different Demand Market by Region, Main Consumer Profile etc.):

Stone and Construction

Abrasives category

Composite polycrystalline tool

Others

Region Coverage (Regional Production, Demand & Forecast by Countries etc.):

North America (U.S., Canada, Mexico)

Europe (Germany, U.K., France, Italy, Russia, Spain etc.)

Asia-Pacific (China, India, Japan, Southeast Asia etc.)

South America (Brazil, Argentina etc.)

Middle East & Africa (Saudi Arabia, South Africa etc.)

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