

Global Superhard Materials Market Data Survey Report 2025

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Abstracts

Summary

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 will reach Volume Million USD in 2017 with CAGR xx% 2018-2025. The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import

Key manufacturers (manufacturing sites, capacity and production, product specifications etc.)

Average market price by SUK

Major applications

Key manufacturers are included based on manufacturing sites, capacity and production, product specifications etc.:

Sandvik

Element Six

Sumitomo Electric

ILJIN

Zhongnan Diamond,

Henan Huanghe Whirlwind

SF Diamond

Zhengzhou Sino-Crystal Diamond

FUNIK

Major applications
as follows:

Stone and Construction

Abrasives category

Composite polycrystalline tool

Others

Regional market size, production data and export & import:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

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