

# Global and United States Superhard Materials Market Research by Company, Type & Application 2013-2025

<https://marketpublishers.com/r/G8176D184A1EN.html>

Date: April 2018

Pages: 86

Price: US\$ 2,000.00 (Single User License)

ID: G8176D184A1EN

## 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-BC<sub>2</sub>N 76 c-BN 48 OsB<sub>2</sub> 37 B<sub>4</sub>C 30 ReB<sub>2</sub> ~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.)

Market Segment as follows:

By Type

Diamond

CBN

Others

#### By Application

Stone and Construction

Abrasives category

Composite polycrystalline tool

Others

#### By Company

Sandvik

Element Six

Sumitomo Electric

ILJIN

Zhongnan Diamond,

Henan Huanghe Whirlwind

SF Diamond

Zhengzhou Sino-Crystal Diamond

FUNIK

The main contents of the report including:

Section 1:

Product definition, type and application, global and United States market overview;

Section 2:

Global and United States Market competition by company;

Section 3:

Global and United States sales revenue, volume and price by type;

Section 4:

Global and United States sales revenue, volume and price by application;

Section 5:

United States export and import;

Section 6:

Company information, business overview, sales data and product specifications;

Section 7:

Industry chain and raw materials;

Section 8:

SWOT and Porter's Five Forces;

Section 9:

Conclusion.

## Contents

### **1 MARKET OVERVIEW**

- 1.1 Market Segment Overview
  - 1.1.1 Product Definition
  - 1.1.2 Market by Type
    - 1.1.2.1 Diamond
    - 1.1.2.2 CBN
    - 1.1.2.3 Others
  - 1.1.3 Market by Application
    - 1.1.3.1 Stone and Construction
    - 1.1.3.2 Abrasives category
    - 1.1.3.3 Composite polycrystalline tool
    - 1.1.3.4 Others
- 1.2 Global and Regional Market Size
  - 1.2.1 Global Overview
  - 1.2.2 United States Overview

### **2 GLOBAL AND REGIONAL MARKET BY COMPANY**

- 2.1 Global
  - 2.1.1 Global Sales by Company
  - 2.1.2 Global Price by Company
- 2.2 United States
  - 2.2.1 United States Sales by Company
  - 2.2.2 United States Price by Company

### **3 GLOBAL AND REGIONAL MARKET BY TYPE**

- 3.1 Global
  - 3.1.1 Global Sales by Type
  - 3.1.2 Global Price by Type
- 3.2 United States
  - 3.2.1 United States Sales by Type
  - 3.2.2 United States Price by Type

### **4 GLOBAL AND REGIONAL MARKET BY APPLICATION**

#### 4.1 Global

4.1.1 Global Sales by Application

4.1.2 Global Price by Application

#### 4.2 United States

4.2.1 United States Sales by Application

4.2.2 United States Price by Application

### **5 REGIONAL TRADE**

#### 5.1 Export

#### 5.2 Import

### **6 KEY MANUFACTURERS**

#### 6.1 Sandvik

6.1.2 Company Information

6.1.2 Product Specifications

6.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

#### 6.2 Element Six

6.2.1 Company Information

6.2.2 Product Specifications

6.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

#### 6.3 Sumitomo Electric

6.3.1 Company Information

6.3.2 Product Specifications

6.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

#### 6.4 ILJIN

6.4.1 Company Information

6.4.2 Product Specifications

6.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

#### 6.5 Zhongnan Diamond,

6.5.1 Company Information

6.5.2 Product Specifications

6.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

#### 6.6 Henan Huanghe Whirlwind

6.6.1 Company Information

6.6.2 Product Specifications

6.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

#### 6.7 SF Diamond

- 6.7.1 Company Information
- 6.7.2 Product Specifications
- 6.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.8 Zhengzhou Sino-Crystal Diamond
  - 6.8.1 Company Information
  - 6.8.2 Product Specifications
  - 6.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.9 FUNIK
  - 6.9.1 Company Information
  - 6.9.2 Product Specifications
  - 6.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

## **7 INDUSTRY UPSTREAM**

- 7.1 Industry Chain
- 7.2 Raw Materials

## **8 MARKET ENVIRONMENT**

- 8.1 SWOT
- 8.2 Porter's Five Forces

## **9 CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table Global Market Sales Revenue by Company 2013-2017  
Table Global Market Sales Revenue Share by Company 2013-2017  
Table Global Market Sales Volume by Company 2013-2017  
Table Global Market Sales Volume Share by Company 2013-2017  
Table Global Price by Company 2013-2017  
Table United States Market Sales Revenue by Company 2013-2017  
Table United States Market Sales Revenue Share by Company 2013-2017  
Table United States Market Sales Volume by Company 2013-2017  
Table United States Market Sales Volume Share by Company 2013-2017  
Table United States Price by Company 2013-2017  
Table Global Market Sales Revenue by Type 2013-2017  
Table Global Market Sales Revenue Share by Type 2013-2017  
Table Global Market Sales Volume by Type 2013-2017  
Table Global Market Sales Volume Share by Type 2013-2017  
Table Global Price by Type 2013-2017  
Table United States Market Sales Revenue by Type 2013-2017  
Table United States Market Sales Revenue Share by Type 2013-2017  
Table United States Market Sales Volume by Type 2013-2017  
Table United States Market Sales Volume Share by Type 2013-2017  
Table United States Price by Type 2013-2017  
Table Global Market Sales Revenue by Application 2013-2017  
Table Global Market Sales Revenue Share by Application 2013-2017  
Table Global Market Sales Volume by Application 2013-2017  
Table Global Market Sales Volume Share by Application 2013-2017  
Table Global Price by Application 2013-2017  
Table United States Market Sales Revenue by Application 2013-2017  
Table United States Market Sales Revenue Share by Application 2013-2017  
Table United States Market Sales Volume by Application 2013-2017  
Table United States Market Sales Volume Share by Application 2013-2017  
Table United States Price by Application 2013-2017  
Table United States Export 2013-2017 (Million USD)  
Table United States Export 2013-2017 (Volume)  
Table United States Import 2013-2017 (Million USD)  
Table United States Import 2013-2017 (Volume)  
Table Sales Revenue, Volume, Price, Cost and Margin of Sandvik

Table Sales Revenue, Volume, Price, Cost and Margin of Element Six

Table Sales Revenue, Volume, Price, Cost and Margin of Sumitomo Electric

Table Sales Revenue, Volume, Price, Cost and Margin of ILJIN

Table Sales Revenue, Volume, Price, Cost and Margin of Zhongnan Diamond,

Table Sales Revenue, Volume, Price, Cost and Margin of Henan Huanghe Whirlwind

Table Sales Revenue, Volume, Price, Cost and Margin of SF Diamond

Table Sales Revenue, Volume, Price, Cost and Margin of Zhengzhou Sino-Crystal  
Diamond

Table Sales Revenue, Volume, Price, Cost and Margin of FUNIK



## List Of Figures

### LIST OF FIGURES

Figure Diamond Market Size and CAGR 2013-2017 (Million USD)  
Figure Diamond Market Size and CAGR 2013-2017 (Volume)  
Figure Diamond Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Diamond Market Forecast and CAGR 2018-2025 (Volume)  
Figure CBN Market Size and CAGR 2013-2017 (Million USD)  
Figure CBN Market Size and CAGR 2013-2017 (Volume)  
Figure CBN Market Forecast and CAGR 2018-2025 (Million USD)  
Figure CBN Market Forecast and CAGR 2018-2025 (Volume)  
Figure Others Market Size and CAGR 2013-2017 (Million USD)  
Figure Others Market Size and CAGR 2013-2017 (Volume)  
Figure Others Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Others Market Forecast and CAGR 2018-2025 (Volume)  
Figure Stone and Construction Market Size and CAGR 2013-2017 (Million USD)  
Figure Stone and Construction Market Size and CAGR 2013-2017 (Volume)  
Figure Stone and Construction Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Stone and Construction Market Forecast and CAGR 2018-2025 (Volume)  
Figure Abrasives category Market Size and CAGR 2013-2017 (Million USD)  
Figure Abrasives category Market Size and CAGR 2013-2017 (Volume)  
Figure Abrasives category Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Abrasives category Market Forecast and CAGR 2018-2025 (Volume)  
Figure Composite polycrystalline tool Market Size and CAGR 2013-2017 (Million USD)  
Figure Composite polycrystalline tool Market Size and CAGR 2013-2017 (Volume)  
Figure Composite polycrystalline tool Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Composite polycrystalline tool Market Forecast and CAGR 2018-2025 (Volume)  
Figure Others Market Size and CAGR 2013-2017 (Million USD)  
Figure Others Market Size and CAGR 2013-2017 (Volume)  
Figure Others Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Others Market Forecast and CAGR 2018-2025 (Volume)  
Figure Global Superhard Materials Market Size and CAGR 2013-2017 (Million USD)  
Figure Global Superhard Materials Market Size and CAGR 2013-2017 (Volume)  
Figure Global Superhard Materials Market Forecast and CAGR 2018-2025 (Million USD)  
Figure Global Superhard Materials Market Forecast and CAGR 2018-2025 (Volume)  
Figure United States Superhard Materials Market Size and CAGR 2013-2017 (Million USD)

USD)

Figure United States Superhard Materials Market Size and CAGR 2013-2017 (Volume)

Figure United States Superhard Materials Market Forecast and CAGR 2018-2025  
(Million USD)

Figure United States Superhard Materials Market Forecast and CAGR 2018-2025  
(Volume)

Figure Global Market Sales Revenue Share by Company in 2017

Figure Global Market Sales Volume Share by Company in 2017

Figure United States Market Sales Revenue Share by Company in 2017

Figure United States Market Sales Volume Share by Company in 2017

Figure Global Market Sales Revenue Share by Type in 2017

Figure Global Market Sales Volume Share by Type in 2017

Figure United States Market Sales Revenue Share by Type in 2017

Figure United States Market Sales Volume Share by Type in 2017

Figure Global Market Sales Revenue Share by Application in 2017

Figure Global Market Sales Volume Share by Application in 2017

Figure United States Market Sales Revenue Share by Application in 2017

Figure United States Market Sales Volume Share by Application in 2017

Figure Industry Chain Overview

Figure Superhard Materials SWOT List

Figure Chemicals & Materials Porter's Five Forces

## I would like to order

Product name: Global and United States Superhard Materials Market Research by Company, Type & Application 2013-2025

Product link: <https://marketpublishers.com/r/G8176D184A1EN.html>

Price: US\$ 2,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G8176D184A1EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

