

Global Polycrystalline Cubic Boron Nitride Composite Chip Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Polycrystalline Cubic Boron Nitride Composite Chip market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The upstream of the industry chain of polycrystalline cubic boron nitride composite sheets is mainly the manufacturers of CBN and cemented carbide, and the downstream is mainly the users of various machining, manufacturing, maintenance and other industries. The industry prospect of polycrystalline cubic boron nitride composite sheet is affected by many factors, such as domestic and foreign economic situation, industry demand, technological innovation, product quality, price competition, etc. The application fields of polycrystalline cubic boron nitride composite sheet are very wide , mainly in the following aspects: processing various types and hardness of iron-based metal materials, such as quenched steel, die steel, bearing steel, carbon steel, cast iron, heat-resistant alloys, etc. Processing various powder metallurgy materials, such as tungsten steel , nickel-based alloys, etc. Processing various non-ferrous metal materials, such as aluminum alloy, magnesium alloy, etc. Process various non-metallic materials, such as ceramics, glass, etc.

Polycrystalline cubic boron nitride composite sheet (PCBN) is a new type of composite superhard material synthesized by cubic boron nitride mixed powder and cemented carbide matrix under high temperature and high pressure. Its hardness is second only to diamond and has high hardness and resistance. Abrasiveness, polycrystalline cubic boron nitride composite sheet hardness is generally HV3000 ~ 5000, heat resistance can reach 1400 ~ 1500 °, and has good red hardness and high oxidation resistance, polycrystalline cubic boron nitride composite sheet The sheet does not oxidize at 1000°C, and does not react chemically with iron-based materials at 1200~1300°C. The

thermal conductivity of the tool made of polycrystalline cubic boron nitride composite sheet is lower than that of diamond but much higher than that of cemented carbide, which is conducive to the improvement of workpiece processing accuracy and surface finish. The tool made of polycrystalline cubic boron nitride composite sheet can process different materials. The friction coefficient of CBN is between 0.1~0.3, which is much lower than that of cemented carbide (0.4~0.6), which makes it difficult for CBN tools to form stagnant layers or built-up edge when cutting. At present, it is widely used in high-speed cutting, turning instead of grinding, hard cutting, dry cutting and other fields, especially suitable for processing gray cast iron, hardened steel and heat-resistant alloys. Cutting materials with high cubic boron nitride content are especially suitable for machining gray cast iron, chilled cast iron, chilled cast iron and other cast iron materials. Typical workpieces are brake discs and drums, engine blocks, flywheels, cylinder liners, machine parts and rollers. Cutting materials with low cubic boron nitride content are mainly used in hard materials: hardened steels, cold and hot work steels, welding and wear-resistant alloys based on nickel, cobalt and iron, sintered steels, cemented carbides. Machining workpieces such as large bearings, shafts, punches, gears, stampings, valve seats and turbine components. There are two main methods for preparing polycrystalline cubic boron nitride composite sheets: one is the primary polymerization method, that is, direct polymerization of hexagonal boron nitride (HBN) into a high-density sintered body; the other is the secondary polymerization method, first synthesize high-density cubic boron nitride (CBN), and then use it as a raw material to sinter into polycrystalline cubic boron nitride by high temperature and high pressure. The secondary polymerization method is divided into adding metal binder and adding ceramic binder. The performance of polycrystalline cubic boron nitride composite sheets is affected by many factors, such as the choice of substrate, the cleanliness and particle size of CBN grains, the content of CBN grains, the type and content of binders, etc. These factors determine the hardness, toughness, heat resistance, wear resistance and impact resistance of polycrystalline cubic boron nitride composite sheet.

This report studies the global Polycrystalline Cubic Boron Nitride Composite Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polycrystalline Cubic Boron Nitride Composite Chip, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Polycrystalline Cubic Boron Nitride Composite Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polycrystalline Cubic Boron Nitride Composite Chip total production and demand, 2018-2029, (M Cts)

Global Polycrystalline Cubic Boron Nitride Composite Chip total production value, 2018-2029, (USD Million)

Global Polycrystalline Cubic Boron Nitride Composite Chip production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (M Cts)

Global Polycrystalline Cubic Boron Nitride Composite Chip consumption by region & country, CAGR, 2018-2029 & (M Cts)

U.S. VS China: Polycrystalline Cubic Boron Nitride Composite Chip domestic production, consumption, key domestic manufacturers and share

Global Polycrystalline Cubic Boron Nitride Composite Chip production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (M Cts)

Global Polycrystalline Cubic Boron Nitride Composite Chip production by Concentration of CBN, production, value, CAGR, 2018-2029, (USD Million) & (M Cts)

Global Polycrystalline Cubic Boron Nitride Composite Chip production by Application production, value, CAGR, 2018-2029, (USD Million) & (M Cts).

This reports profiles key players in the global Polycrystalline Cubic Boron Nitride Composite Chip market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CeramTec, Element Six, ILJIN, Tomei Diamond, Industrial Abrasives Limited, Sumitomo, Resonac, Hyperion Materials & Technologies and Funik Ultra hard Material, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Polycrystalline Cubic Boron Nitride Composite Chip market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Cts) and average price (USD/Ct) by manufacturer, by Concentration of CBN, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Polycrystalline Cubic Boron Nitride Composite Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polycrystalline Cubic Boron Nitride Composite Chip Market, Segmentation by Concentration of CBN

?60%

60%-70%

70%-80%

80%-90%

?90%

Global Polycrystalline Cubic Boron Nitride Composite Chip Market, Segmentation by Application

Cutting

Grinding

Machining

Other

Companies Profiled:

CeramTec

Element Six

ILJIN

Tomei Diamond

Industrial Abrasives Limited

Sumitomo

Resonac

Hyperion Materials & Technologies

Funik Ultra hard Material

Henan Yalong Diamond Tools

SF Diamond

Shenzhen Juntec ULTRA-HARD TOOLS

Langfang Supower Diamond Technology

Shanghai Henghard Material Technology

BN (China) Technology

FINE ABRASIVES TAIWAN

Jinhua Zhongye Superhard MATERIALS

Key Questions Answered

1. How big is the global Polycrystalline Cubic Boron Nitride Composite Chip market?
2. What is the demand of the global Polycrystalline Cubic Boron Nitride Composite Chip market?
3. What is the year over year growth of the global Polycrystalline Cubic Boron Nitride Composite Chip market?
4. What is the production and production value of the global Polycrystalline Cubic Boron Nitride Composite Chip market?
5. Who are the key producers in the global Polycrystalline Cubic Boron Nitride Composite Chip market?
6. What are the growth factors driving the market demand?

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