

# Global Polycrystalline Cubic Boron Nitride Composite Chip Market Growth 2023-2029

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## Abstracts

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According to our (LP Info Research) latest study, the global Polycrystalline Cubic Boron Nitride Composite Chip market size was valued at US\$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Polycrystalline Cubic Boron Nitride Composite Chip is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Polycrystalline Cubic Boron Nitride Composite Chip market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Polycrystalline Cubic Boron Nitride Composite Chip are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Polycrystalline Cubic Boron Nitride Composite Chip. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Polycrystalline Cubic Boron Nitride Composite Chip market.

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 °C, 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.

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.

#### Key Features:

The report on Polycrystalline Cubic Boron Nitride Composite Chip market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Polycrystalline Cubic Boron Nitride Composite Chip market. It may include historical data, market segmentation by Concentration of CBN (e.g., 60%, 60%-70%), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Polycrystalline Cubic Boron Nitride Composite Chip market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Polycrystalline Cubic Boron Nitride Composite Chip market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Polycrystalline Cubic Boron Nitride Composite Chip industry. This include advancements in Polycrystalline Cubic Boron Nitride Composite Chip technology, Polycrystalline Cubic Boron Nitride Composite Chip new entrants, Polycrystalline Cubic Boron Nitride Composite Chip new investment, and other innovations that are shaping the future of Polycrystalline Cubic Boron Nitride Composite Chip.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Polycrystalline Cubic Boron Nitride Composite Chip market. It includes factors influencing customer ' purchasing decisions, preferences for Polycrystalline Cubic Boron Nitride Composite Chip product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Polycrystalline Cubic Boron Nitride Composite Chip market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Polycrystalline Cubic Boron Nitride Composite Chip market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Polycrystalline Cubic Boron Nitride Composite Chip market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Polycrystalline Cubic Boron Nitride Composite Chip industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Polycrystalline Cubic Boron Nitride Composite Chip market.

**Market Segmentation:**

Polycrystalline Cubic Boron Nitride Composite Chip market is split by Concentration of CBN and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Concentration of CBN, and by Application in terms of volume and value.

Segmentation by concentration of cbn

?60%

60%-70%

70%-80%

80%-90%

?90%

### Segmentation by application

Cutting

Grinding

Machining

Other

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Polycrystalline Cubic Boron Nitride Composite Chip market?

What factors are driving Polycrystalline Cubic Boron Nitride Composite Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Polycrystalline Cubic Boron Nitride Composite Chip market opportunities vary

by end market size?

How does Polycrystalline Cubic Boron Nitride Composite Chip break out concentration of cbn, application?

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