

Global Cubic Boron Nitride Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Cubic Boron Nitride market size was valued at USD 46700 million in 2023 and is forecast to a readjusted size of USD 93540 million by 2030 with a CAGR of 10.4% during review period.

Cubic Boron Nitride (CBN) is a synthetic chemical compound made up of boron and nitrogen atoms in a one-to-one ratio. Unlike other types of boron nitride, it exists as a cubic crystal lattice, with its atoms arranged in a symmetrical, cube-shaped structure like the crystalline structure of diamond. Its material properties include extreme hardness, stability under heat, and superior chemical resistance. Cubic Boron Nitride is the second-hardest known material after diamond, making it useful in a wide variety of industrial applications, where it is often used as an abrasive or cutting tool.

As diamond is less stable than graphite, Cubic Boron Nitride is less stable than h-BN, but the conversion rate between those forms is negligible at room temperature (again like diamond). The cubic form has the sphalerite crystal structure, the same as that of diamond, and is also called β -BN or c-BN. The wurtzite BN form has the same structure as lonsdaleite, a rare hexagonal polymorph of carbon. In both c-BN and w-BN, the boron and nitrogen atoms are grouped into tetrahedra, but the angles between neighboring tetrahedra differ between the two.

Global Cubic Boron Nitride key players include FUNIK, Element Six, Momentive, ILJIN, Saint-Gobain, etc. Global top five manufacturers hold a share over 45%.

China is the largest market, with a share over 65%, followed by Europe and US, both have a share over 15%.

In terms of application, the largest application is Resin bond and vitrified wheels, followed by Resin bond grinding wheels, Vitrified wheels, etc.

The Global Info Research report includes an overview of the development of the Cubic Boron Nitride industry chain, the market status of Resin Bond and Vitrified Wheels (CBN Monocrystalline, CBN Micro Mist), Resin Bond Grinding Wheels (CBN Monocrystalline, CBN Micro Mist), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Cubic Boron Nitride.

Regionally, the report analyzes the Cubic Boron Nitride markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Cubic Boron Nitride market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Cubic Boron Nitride market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Cubic Boron Nitride industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Ct), revenue generated, and market share of different by Type (e.g., CBN Monocrystalline, CBN Micro Mist).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Cubic Boron Nitride market.

Regional Analysis: The report involves examining the Cubic Boron Nitride market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Cubic Boron Nitride market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Cubic Boron Nitride:

Company Analysis: Report covers individual Cubic Boron Nitride manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Cubic Boron Nitride. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Resin Bond and Vitrified Wheels, Resin Bond Grinding Wheels).

Technology Analysis: Report covers specific technologies relevant to Cubic Boron Nitride. It assesses the current state, advancements, and potential future developments in Cubic Boron Nitride areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Cubic Boron Nitride market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Cubic Boron Nitride market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

CBN Monocrystalline

CBN Micro Mist

Market segment by Application

Resin Bond and Vitrified Wheels

Resin Bond Grinding Wheels

Vitrified Wheels

Electroplated Products

PcBN

Others

Major players covered

Element Six

Momentive

ILJIN

Saint-Gobain

Sumitomo Electric Industries

Sandvik Hyperion

Tomei Diamond

FUNIK

Zhengzhou Zhongnan Jete Superabrasives

Famous Diamond

Besco Superabrasives

Berlt Hard Material

Zhengzhou Zhong peng

Henan Huanghe Whirlwind

Yuzhou Hehui Superhard Material Company

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cubic Boron Nitride product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cubic Boron Nitride, with price, sales, revenue and global market share of Cubic Boron Nitride from 2019 to 2024.

Chapter 3, the Cubic Boron Nitride competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cubic Boron Nitride breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Cubic Boron Nitride market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cubic Boron Nitride.

Chapter 14 and 15, to describe Cubic Boron Nitride sales channel, distributors, customers, research findings and conclusion.

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