

Global Boron Carbide Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Boron Carbide market size will reach 275.95 Million USD in 2025 and is projected to reach 352.99 Million USD by 2032, with a CAGR of 3.58% (2025-2032). Notably, the China Boron Carbide market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Boron carbide is a hard, black crystalline compound composed of boron and carbon atoms. With a chemical formula of B_4C , it is one of the hardest materials known, ranking just below diamond and cubic boron nitride in terms of hardness. Boron carbide exhibits exceptional properties, including high melting point, low density, excellent thermal stability, and good chemical resistance. It is widely used as an abrasive in industrial applications, such as grinding, lapping, and polishing, due to its high hardness and wear resistance. Boron carbide is also utilized in ballistic armor due to its exceptional ability to absorb and dissipate the energy of high-velocity projectiles. In addition, it finds applications in nuclear engineering as a shielding material, in cutting tools and wear-resistant components, and as a neutron absorber in nuclear reactors. Its unique combination of hardness, lightness, and chemical stability makes boron carbide a valuable material in various technological and industrial fields.

The major global manufacturers of Boron Carbide include 3M, JSC ?Zaporozhabrasive?, Washington Mills, H.C. Starck, Mudanjiang Jingangzuan Boron

Carbide, Dunhua Zhengxing Abrasive, Zhengzhou Yingcheng Technology, Songshan Boron Technology, Dalian Zhengxing Abrasive, Mudanjiang Hongda Boron Carbide, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Boron Carbide. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Boron Carbide market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Boron Carbide market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Boron Carbide industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Boron Carbide Include:

3M

JSC ?Zaporozhabrasive?

Washington Mills

H.C. Starck

Mudanjiang Jingangzuan Boron Carbide

Dunhua Zhengxing Abrasive

Zhengzhou Yingcheng Technology

Songshan Boron Technology

Dalian Zhengxing Abrasive

Mudanjiang Hongda Boron Carbide

Boron Carbide Product Segment Include:

Boron Carbide Powder

Boron Carbide Grains

Boron Carbide Paste

Boron Carbide Product Application Include:

Abrasives

Nozzles

Armour/Nuclear

Other

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Boron Carbide Capacity and Production Analysis

Chapter 3: Global Boron Carbide Industry PESTEL Analysis

Chapter 4: Global Boron Carbide Industry Porter's Five Forces Analysis

Chapter 5: Global Boron Carbide Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

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