

Global Boron Carbide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Boron Carbide market size is expected to reach \$ 317 million by 2032, rising at a market growth of 2.9% CAGR during the forecast period (2026-2032).

Boron Carbide (CAS 12069-32-8) is one of the hardest materials known, ranking third behind diamond and cubic boron nitride. Boron carbide powder is mainly produced by reacting carbon with B₂O₃ in an electric arc furnace, through carbothermal reduction or by gas phase reactions. For commercial use B₄C powders usually need to be milled and purified to remove metallic impurities. Some of Boron Carbide's unique properties include: high hardness, chemical inertness, and a high neutron absorbing cross section.

Global core manufacturers of Boron Carbide include 3M, Washington Mills, Dunhua Zhengxing Abrasive, Mudanjiang Qianjin Boron Carbide and Songshan Boron Technology. Asia-Pacific is the largest consumption region, accounting for approximately 46% of the global market. In terms of type, abrasive powder is the largest market segment, with a share of more than 59%. In terms of application, the largest application is abrasive, with a share of approximately 28%.

This report studies the global Boron Carbide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Boron Carbide and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Boron Carbide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Boron Carbide total production and demand, 2021-2032, (Tons)

Global Boron Carbide total production value, 2021-2032, (USD Million)

Global Boron Carbide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Boron Carbide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Boron Carbide domestic production, consumption, key domestic manufacturers and share

Global Boron Carbide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Boron Carbide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Boron Carbide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Boron Carbide 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 3M, Washington Mills, Dunhua Zhengxing Abrasive, Mudanjiang Qianjin Boron Carbide, Songshan Boron Technology, Dalian Zhengxing Abrasive, Mudanjiang Hongda Boron Carbide, TRBOR, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Boron Carbide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Boron Carbide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Boron Carbide Market, Segmentation by Type:

Abrasive Powder

Micro Powder

Global Boron Carbide Market, Segmentation by Application:

Abrasives

Military

Nuclear Applications

Refractory Materials

Others

Companies Profiled:

3M

Washington Mills

Dunhua Zhengxing Abrasive

Mudanjiang Qianjin Boron Carbide

Songshan Boron Technology

Dalian Zhengxing Abrasive

Mudanjiang Hongda Boron Carbide

TRBOR

Key Questions Answered:

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

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