

**Boric Acid Market Report by Purity (<99%, ≥99%), Application (Flame Retardants, Ceramics & Fiberglass, Wood Preservatives, Nutritional Supplements, Pest Control, and Others), Distribution Channel (Wholesale, E-Commerce, Retail Stores, Supermarkets and Hypermarkets, Independent Stores, and Others), End User (Pharmaceuticals, Agricultural, Chemical Processing, Building & Construction, Nuclear, and Others), and Region 2025-2033**

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**Report description:**

The global boric acid market size reached USD 936.0 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 1,404.2 Million by 2033, exhibiting a growth rate (CAGR) of 4.61% during 2025-2033. The increasing use of boric acid in fertilizers to enhance crop yields and improve soil health is stimulating the market growth.

Boric acid is a chemical compound composed of boron, oxygen, and hydrogen, with the chemical formula  $H_3BO_3$ . It exists as a white, odorless, crystalline powder. This versatile substance finds applications in various industries, including pharmaceuticals, agriculture, and cosmetics, as an antiseptic, astringent, pesticide, and fertilizer. Besides this, boric acid is utilized in manufacturing glass, ceramics, and enamel due to its ability to act as a flux. Its mild antiseptic properties also make it popular in skin care products and eye drops.

The increasing demand for boric acid in various end-use industries such as agriculture, ceramics, glass, and pharmaceuticals, is primarily fueling its market growth. In addition to this, the bolstering growth of the agricultural sector, especially in developing regions, is fueling the need for boric acid-based fertilizers and pesticides to enhance crop yield. Furthermore, the rising demand

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for boric acid in the production of fiberglass and insulation materials for construction purposes is contributing to market expansion. Concurrent with this, the growing awareness about the benefits of boric acid in skin care products and eye drops is boosting its employment in the cosmetics and healthcare industries, thereby strengthening the market growth. Moreover, various other factors, such as rapid industrialization, urbanization, and infrastructure development in emerging economies, are presenting lucrative opportunities for market expansion.

#### Boric Acid Market Trends/Drivers:

##### Diverse applications in various industries

Boric acid's versatility and wide range of applications across diverse industries are major factors fueling its market growth. Moreover, the surging product adoption across the thriving agriculture sector as an essential micronutrient for crops to promote healthy plant growth and increase yield is propelling the market forward. Concurrent with this, boric acid acts as a flux in the ceramics and glass industries, reducing the melting point of materials and enhancing the manufacturing process of glass and ceramics products. This application is particularly crucial in the production of electronic components, display panels, and glass fibers for insulation purposes. Furthermore, boric acid finds application in pharmaceuticals as an antiseptic and astringent, contributing to its usage in the healthcare sector.

##### Growing agricultural sector in emerging economies

The expanding agricultural sector, especially in emerging economies, is acting as a significant growth-inducing driver for the global boric acid market. As the global population continues to grow, the demand for agricultural products rises, thereby increasing the need for boric acid-based fertilizers and pesticides. Developing regions are witnessing rapid industrialization and urbanization, leading to an increase in agricultural activities to meet the rising demand for food. Boric acid's importance as an agricultural input, such as boron-based fertilizers and pesticides, has gained traction due to its role in improving soil fertility and plant health. As emerging economies continue to modernize and invest in agriculture, the demand for boric acid is expected to grow steadily.

##### Rising demand from construction and infrastructure development

The construction industry's growth and the expanding infrastructure development across the globe are some of the key factors impelling the market growth. Boric acid is utilized in the manufacturing of fiberglass and insulation materials, which are integral components in construction projects. These materials provide excellent thermal and acoustic insulation properties, making them essential in buildings, automotive, and aerospace sectors. As a result, with rapid urbanization and a surge in global construction activities, the demand for boric acid in these applications is expected to witness substantial growth, creating a positive outlook for market expansion.

#### Boric Acid Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with the boric acid market forecast at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on purity, application, distribution channel, and end user.

#### Breakup by Purity:

-□<99%

-□?99%

?99% dominates the market

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The report has provided a detailed breakup and analysis of the market based on purity. This includes <99% and ?99%. According to the report, ?99% represented the largest segment.

The demand for boric acid with a purity of ?99% is propelled by its essential role in high-tech industries and advanced applications. Industries such as electronics and semiconductor manufacturing require boric acid with exceptional purity levels to ensure the production of precise and reliable components. Boron doping in semiconductors is essential for optimizing electrical conductivity and enhancing device performance. Moreover, the aerospace and defense sectors use high-purity boric acid in the development of advanced materials and composites for lightweight and durable applications. As these industries continue to advance and demand cutting-edge technologies, the need for boric acid with purity ?99% is set to increase significantly.

Breakup by Application:

- Flame Retardants
- Ceramics & Fiberglass
- Wood Preservatives
- Nutritional Supplements
- Pest Control
- Others

Ceramics & fiberglass hold the largest share in the market

The report has provided a detailed breakup and analysis of the market based on the application. This includes flame retardants, ceramics and fiberglass, wood preservatives, nutritional supplements, pest control, and others. According to the report, ceramics and fiberglass represented the largest segment.

The demand for boric acid in ceramics and fiberglass industries is primarily driven by its unique properties that enhance product performance and manufacturing efficiency. In the ceramics sector, boric acid acts as a fluxing agent, reducing the melting point of materials and improving their workability during shaping and forming processes. This results in higher-quality ceramic products with enhanced strength and durability. For the fiberglass industry, boric acid is used as a crucial component in the production of glass fibers, providing excellent thermal and acoustic insulation properties. As a result, with the flourishing expansions of the construction and automotive sectors and the subsequent surge in demand for fiberglass-based materials, there is an increasing demand for boric acid.

Breakup by Distribution Channel:

- Wholesale
- E-Commerce
- Retail Stores
- Supermarkets and Hypermarkets
- Independent Stores
- Others

Wholesale dominates the market

The report has provided a detailed breakup and analysis of the market based on the distribution channel. This includes wholesale, e-commerce, retail stores, supermarkets and hypermarkets, independent stores, and others. According to the report, wholesale

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represented the largest segment.

The widespread applications of boric acid across various industries and the economies of scale offered by bulk purchases are impelling the product sales through wholesale channels. Besides this, wholesale channels serve as a convenient and cost-effective means for industries to procure boric acid in large quantities, ensuring a steady supply for their manufacturing processes. Moreover, the wholesale distribution network allows buyers to access competitive prices and discounts for bulk orders, making it financially advantageous. Furthermore, wholesale suppliers often cater to a wide range of industries, including agriculture, pharmaceuticals, and construction, further contributing to the consistent demand for boric acid through this distribution channel. As the global market for boric acid continues to grow, wholesale channels will remain pivotal in meeting the increasing demand efficiently.

#### Breakup by End User:

- Pharmaceuticals
- Agricultural
- Chemical Processing
- Building & Construction
- Nuclear
- Others

Pharmaceuticals hold the largest share in the market

The report has provided a detailed breakup and analysis of the market based on the end user. This includes pharmaceuticals, agricultural, chemical processing, building and construction, nuclear, and others. According to the report, pharmaceuticals represented the largest segment.

The demand for boric acid across the pharmaceutical sector, driven by its valuable properties and diverse applications in medicinal products, is presenting remunerative opportunities for market expansion. Boric acid's antiseptic and astringent characteristics make it a vital ingredient in various pharmaceutical formulations, such as eye drops and topical creams for treating eye infections and skin conditions. Additionally, boric acid is used as a buffering agent in oral medications to maintain their pH levels and stabilize their effectiveness. Moreover, its role as an excipient in tablets and capsules aids in improving drug dissolution and bioavailability. With the continuous need for effective and safe pharmaceutical solutions, the demand for boric acid in the industry is expected to remain robust, creating a favorable outlook for market growth.

#### Breakup by Region:

- North America
- United States
- Canada
- Asia Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others

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- Europe
- Germany
- France
- United Kingdom
- Italy
- Spain
- Russia
- Others
- Latin America
- Brazil
- Mexico
- Others
- Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest boric acid market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

Rising industrialization and urbanization in the Asia Pacific region, particularly in countries including China, India, and Southeast Asian nations, are driving the construction and automotive industries, thereby increasing the need for fiberglass and ceramics products where boric acid is a critical component. Moreover, the expanding agricultural sector in the region necessitates the use of boric acid-based fertilizers and pesticides to enhance crop yields, which, in turn, is strengthening the market growth. In addition to this, the growing pharmaceutical and healthcare industries in the Asia Pacific region are contributing to the demand for boric acid's applications in antiseptic and medicinal formulations, which is propelling the market forward.

#### Competitive Landscape:

The global boric acid market exhibits a competitive landscape with several key players vying for market share. Major manufacturers and suppliers dominate the boric acid market with a wide geographic presence and strong distribution networks. They focus on product innovation, R&D, and strategic partnerships to maintain their competitive edge. Additionally, these players adopt mergers, acquisitions, and collaborations to expand their market outreach and access new regions. The market also witnesses the participation of smaller regional players, who cater to local demands and niche applications. The competitive environment is characterized by price competitiveness, quality assurance, and adherence to international regulations. As the demand for boric acid continues to grow in various industries, competition among key players is expected to intensify, leading to further innovations and market expansion.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

- 3M Company
- Avantor Inc.
- Eti Maden
- Gujarat Boron Derivatives Pvt. Ltd.
- Indo Borax & Chemicals Limited
- Minera Santa Rita S.R.L.

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- [ ] Organic Industries Pvt. Ltd.
- [ ] Quiborax SA
- [ ] SCL Italia S.p.A.
- [ ] Singhania International Limited
- [ ] Sociedad Industrial Tierra S.A.
- [ ] The Chemical Company
- [ ] Tomiyama Pure Chemical Industries Ltd.
- [ ] U.S. Borax Inc. (Rio Tinto plc)

#### Key Questions Answered in This Report

1. How big is the global boric acid market?
2. What is the expected growth rate of the global boric acid market during 2025-2033?
3. What are the key factors driving the global boric acid market?
4. What has been the impact of COVID-19 on the global boric acid market growth?
5. What is the breakup of the global boric acid market based on the purity?
6. What is the breakup of the global boric acid market based on the application?
7. What is the breakup of the global boric acid market based on the distribution channel?
8. What is the breakup of the global boric acid market based on the end user?
9. What are the key regions in the global boric acid market?
10. Who are the key players/companies in the global boric acid market?

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15.3.15.1 Company Overview

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Kindly, note that this only represents a partial list of companies, and the complete list has been provided in the report

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