

# **Boric Acid Market Forecasts to 2030 – Global Analysis By Form (Powder, Granules, Flakes, Tablets and Other Forms), Sales Channel, Application, End User and By Geography**

<https://marketpublishers.com/r/B5AAC38A1687EN.html>

Date: April 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: B5AAC38A1687EN

## **Abstracts**

According to Statistics MRC, the Global Boric Acid Market is accounted for \$1.13 billion in 2024 and is expected to reach \$1.66 billion by 2030 growing at a CAGR of 6.6% during the forecast period. Boric acid is a chemical compound consisting of boron, oxygen, and hydrogen, commonly used in various industrial and household applications. It appears as a white, odorless powder or crystalline substance. Boric acid is primarily used as an antiseptic, insecticide, flame retardant, and preservative. In addition, it is employed in the manufacturing of glass, ceramics, and fiberglass. It also plays a role in pH buffering and as a catalyst in chemical reactions. While generally safe in small amounts, it can be toxic if ingested or improperly handled in large quantities.

Market Dynamics:

Driver:

Increasing demand for borosilicate glass

The increasing demand for borosilicate glass in the market is driven by its superior thermal resistance, chemical stability, and non-reactivity, making it ideal for laboratory equipment, cookware, and industrial applications. Borosilicate glass is preferred in high-temperature environments, as it can withstand rapid temperature changes without breaking. As industries like pharmaceuticals, chemicals, and food processing expand, the need for durable, heat-resistant materials like borosilicate glass grows, further fueling its demand in the market.

### Restraint:

#### Health and environmental concerns

The market faces growing concerns due to its potential health and environmental risks. Prolonged exposure can lead to skin irritation, respiratory issues, and reproductive harm. It is toxic to aquatic life, causing disruptions in ecosystems. Improper disposal and overuse in agriculture contribute to soil and water contamination. These negative impacts have led to stricter regulations, limiting Boric Acid usage in certain industries, and driving demand for safer, eco-friendly alternatives.

### Opportunity:

#### Rising awareness of energy efficiency

The rising awareness of energy efficiency is driving growth in the Market. As industries focus on reducing energy consumption and minimizing environmental impact, boric acid is gaining popularity due to its various applications, such as in flame retardants, glass manufacturing, and energy-efficient insulation materials. Its role in promoting energy savings and sustainability is fueling demand across diverse sectors, aligning with global efforts to reduce carbon footprints.

### Threat:

#### Availability of substitutes

The availability of substitutes in the market poses a significant challenge. As alternatives like boron-free compounds and organic pesticides gain popularity, the demand for Boric Acid declines. These substitutes are often seen as safer and more environmentally friendly, reducing Boric Acid's market share. This shift can negatively impact the revenue of manufacturers, leading to increased competition and forcing companies to innovate or lower prices to remain competitive, affecting profitability and market stability.

### Covid-19 Impact:

The COVID-19 pandemic disrupted the market by causing supply chain interruptions, labor shortages, and reduced production capacity. Lockdowns and economic

slowdowns led to decreased demand in industries like agriculture, manufacturing, and cosmetics. However, demand for disinfectants and sanitizers briefly boosted Boric Acid use in some segments. The overall market faced uncertainty, with slower recovery in some regions, as companies adapted to new health protocols and shifting market needs during and after the pandemic.

The glass industry segment is expected to be the largest market share during the forecast period

The glass industry segment is expected to account for the largest market share during the forecast period. It improves thermal and chemical resistance, enhances durability, and lowers the melting point of glass, making it easier to process. Boric Acid is also used in manufacturing glass for electronics, ceramics, and solar panels. However, increasing environmental and health concerns, along with the rise of alternative materials, may affect its demand in the glass industry, leading to market shifts.

The agriculture segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the agriculture segment is predicted to witness the highest growth rate. It aids in the development of strong cell walls, enhances pollination, and boosts crop yields. However, concerns over overuse and environmental impact, such as soil toxicity and water contamination, have raised awareness. These concerns may lead to stricter regulations on Boric Acid use, influencing its demand in agricultural applications and encouraging alternative agricultural solutions.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. The U.S. is a key producer and consumer, using Boric Acid for applications such as fiberglass production, pest control, and as a fire retardant. However, rising health and environmental concerns, along with competition from alternative materials, pose challenges. Regulatory pressures may also affect market growth, pushing for sustainable and safer alternatives to Boric Acid in various sectors.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. Rapid industrialization in countries like China and India is driving the demand for

boric acid in sectors such as ceramics, and fiberglass production. Boric acid is increasingly used in agriculture to enhance soil health and promote plant growth, contributing to its rising demand in the region. Additionally, there is a growing emphasis on sustainable and eco-friendly boric acid products, aligning with global environmental trends and regulations.

### Key players in the market

Some of the key players in Boric Acid market include Junsei Chemical Co.,Ltd., Minera Santa Rita, Vandana Global Ltd., Nippon Denko Co. Ltd, FerroAtlantica, Tata Chemicals Limited, Gulbrandsen, BASF SE, Pampa Group, Rio Tinto, 3M, United Borax, Wuhan Zhongtai International, Nirma Limited and FerroAtlantica.

### Key Developments:

In February 2025, Tata Chemicals Limited (TCL) has entered into a Memorandum of Understanding (MoU) with Bharatiya Sanskriti Darshan Trust (BSDT) and its Integrated Cancer Treatment and Research Centre (ICTRC) in Pune. This partnership will explore the potential health benefits of TCL's prebiotic, soluble dietary fibers and their derivatives, focusing on gut health and overall well-being.

In November 2024, BASF and Acies Bio have entered into a transformative partnership to further develop a platform for fermentation technology from methanol for the production of fatty alcohols. Fatty alcohols are essential building blocks for several ingredients in the home and personal care markets, in particular surfactants.

### Forms Covered:

Powder

Granules

Flakes

Tablets

Other Forms

**Sales Channels Covered:**

Direct Sales

Distributors and Wholesalers

Online Retail

Retail Sales

**Applications Covered:**

Glass Industry

Ceramics

Flame Retardants

Disinfectants and Cleaning Agents

Other Applications

**End Users Covered:**

Agriculture

Pharmaceuticals

Automotive

Construction

Chemical

Electronics

Other End Users

## Regions Covered:

### North America

US

Canada

Mexico

### Europe

Germany

UK

Italy

France

Spain

Rest of Europe

### Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL BORIC ACID MARKET, BY FORM**

- 5.1 Introduction
- 5.2 Powder
- 5.3 Granules
- 5.4 Flakes
- 5.5 Tablets
- 5.6 Other Forms

## **6 GLOBAL BORIC ACID MARKET, BY SALES CHANNEL**

- 6.1 Introduction
- 6.2 Direct Sales
- 6.3 Distributors and Wholesalers
- 6.4 Online Retail
- 6.5 Retail Sales

## **7 GLOBAL BORIC ACID MARKET, BY APPLICATION**

- 7.1 Introduction
- 7.2 Glass Industry
- 7.3 Ceramics
- 7.4 Flame Retardants
- 7.5 Disinfectants and Cleaning Agents
- 7.6 Other Applications

## **8 GLOBAL BORIC ACID MARKET, BY END USER**

- 8.1 Introduction
- 8.2 Agriculture
- 8.3 Pharmaceuticals
- 8.4 Automotive
- 8.5 Construction
- 8.6 Chemical
- 8.7 Electronics
- 8.8 Other End Users

## **9 GLOBAL BORIC ACID MARKET, BY GEOGRAPHY**

- 9.1 Introduction
- 9.2 North America
  - 9.2.1 US
  - 9.2.2 Canada
  - 9.2.3 Mexico
- 9.3 Europe
  - 9.3.1 Germany
  - 9.3.2 UK
  - 9.3.3 Italy
  - 9.3.4 France
  - 9.3.5 Spain
  - 9.3.6 Rest of Europe
- 9.4 Asia Pacific
  - 9.4.1 Japan
  - 9.4.2 China
  - 9.4.3 India
  - 9.4.4 Australia
  - 9.4.5 New Zealand
  - 9.4.6 South Korea
  - 9.4.7 Rest of Asia Pacific
- 9.5 South America
  - 9.5.1 Argentina
  - 9.5.2 Brazil
  - 9.5.3 Chile
  - 9.5.4 Rest of South America
- 9.6 Middle East & Africa
  - 9.6.1 Saudi Arabia
  - 9.6.2 UAE
  - 9.6.3 Qatar
  - 9.6.4 South Africa
  - 9.6.5 Rest of Middle East & Africa

## **10 KEY DEVELOPMENTS**

- 10.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 10.2 Acquisitions & Mergers
- 10.3 New Product Launch
- 10.4 Expansions
- 10.5 Other Key Strategies

## 11 COMPANY PROFILING

- 11.1 Junsei Chemical Co.,Ltd.
- 11.2 Minera Santa Rita
- 11.3 Vandana Global Ltd.
- 11.4 Nippon Denko Co. Ltd
- 11.5 FerroAtlantica
- 11.6 Tata Chemicals Limited
- 11.7 Gulbrandsen
- 11.8 BASF SE
- 11.9 Pampa Group
- 11.10 Rio Tinto
- 11.11 3M
- 11.12 United Borax
- 11.13 Wuhan Zhongtai International
- 11.14 Nirma Limited
- 11.15 FerroAtlantica

## List Of Tables

### LIST OF TABLES

- Table 1 Global Boric Acid Market Outlook, By Region (2022-2030) (\$MN)
- Table 2 Global Boric Acid Market Outlook, By Form (2022-2030) (\$MN)
- Table 3 Global Boric Acid Market Outlook, By Powder (2022-2030) (\$MN)
- Table 4 Global Boric Acid Market Outlook, By Granules (2022-2030) (\$MN)
- Table 5 Global Boric Acid Market Outlook, By Flakes (2022-2030) (\$MN)
- Table 6 Global Boric Acid Market Outlook, By Tablets (2022-2030) (\$MN)
- Table 7 Global Boric Acid Market Outlook, By Other Forms (2022-2030) (\$MN)
- Table 8 Global Boric Acid Market Outlook, By Sales Channel (2022-2030) (\$MN)
- Table 9 Global Boric Acid Market Outlook, By Direct Sales (2022-2030) (\$MN)
- Table 10 Global Boric Acid Market Outlook, By Distributors and Wholesalers (2022-2030) (\$MN)
- Table 11 Global Boric Acid Market Outlook, By Online Retail (2022-2030) (\$MN)
- Table 12 Global Boric Acid Market Outlook, By Retail Sales (2022-2030) (\$MN)
- Table 13 Global Boric Acid Market Outlook, By Application (2022-2030) (\$MN)
- Table 14 Global Boric Acid Market Outlook, By Glass Industry (2022-2030) (\$MN)
- Table 15 Global Boric Acid Market Outlook, By Ceramics (2022-2030) (\$MN)
- Table 16 Global Boric Acid Market Outlook, By Flame Retardants (2022-2030) (\$MN)
- Table 17 Global Boric Acid Market Outlook, By Disinfectants and Cleaning Agents (2022-2030) (\$MN)
- Table 18 Global Boric Acid Market Outlook, By Other Applications (2022-2030) (\$MN)
- Table 19 Global Boric Acid Market Outlook, By End User (2022-2030) (\$MN)
- Table 20 Global Boric Acid Market Outlook, By Agriculture (2022-2030) (\$MN)
- Table 21 Global Boric Acid Market Outlook, By Pharmaceuticals (2022-2030) (\$MN)
- Table 22 Global Boric Acid Market Outlook, By Automotive (2022-2030) (\$MN)
- Table 23 Global Boric Acid Market Outlook, By Construction (2022-2030) (\$MN)
- Table 24 Global Boric Acid Market Outlook, By Chemical (2022-2030) (\$MN)
- Table 25 Global Boric Acid Market Outlook, By Electronics (2022-2030) (\$MN)
- Table 26 Global Boric Acid Market Outlook, By Other End Users (2022-2030) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

## I would like to order

Product name: Boric Acid Market Forecasts to 2030 – Global Analysis By Form (Powder, Granules, Flakes, Tablets and Other Forms), Sales Channel, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/B5AAC38A1687EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B5AAC38A1687EN.html>