

# South & Central America Boron Market Report (2021-2031) by Scope, Segmentation, Dynamics, and Competitive Analysis

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## Abstracts

The boron market in South and Central America is projected to grow from US\$ 216.21 million in 2023 to US\$ 254.75 million by 2031, reflecting a compound annual growth rate (CAGR) of 2.1% during this period.

### Executive Summary and Market Analysis

The increase in the boron market, particularly in Brazil and Argentina, is largely driven by the rising demand in the glass manufacturing sector. Brazilian glass manufacturers are innovating to create advanced glass solutions for various applications in corporate, residential, and institutional buildings. For example, GlassecViracon introduced innovative glass products in November 2019 that enhance thermal and acoustic performance, safety, and aesthetics for construction projects. This trend, alongside a surge in infrastructure development, is expected to significantly boost the boron market.

Additionally, environmental and energy policies are fostering the growth of solar technology in the region. Regulations aimed at improving building energy efficiency are promoting the use of solar glass, which incorporates boron in its production. Notably, Brazil ranked fourth in the US Green Building Council's 2022 list of the top countries for LEED certification, highlighting the increasing adoption of solar glass and its reliance on boron.

### Market Segmentation Analysis

The South and Central America boron market can be segmented by derivatives and end-use industries.

1. **Derivatives:** The market includes borax, boric acid, boron nitride, boron carbide, boron oxide, and others. In 2023, boron nitride emerged as the leading segment.
2. **End-Use Industries:** The market is also categorized into agrochemicals, glass, ceramics, detergents, pharmaceuticals, electrical and electronics, and others. The glass industry held the largest market share in 2023.

## **Market Outlook**

The utilization of boron nanoparticles is on the rise due to their unique properties and potential applications across various sectors. These nanoparticles are known for their durability, thermal stability, chemical inertness, and neutron absorption capabilities. In aerospace, boron nanoparticles are enhancing the strength and durability of composite materials. Recent research from the ARC Centre of Excellence for Transformative Meta-Optical Systems in June 2023 indicated that hexagonal boron nitride could potentially replace diamond in quantum sensing applications.

Moreover, boron nanoparticles are being explored for targeted drug delivery systems, particularly in cancer treatment. A study published in April 2024 by the American Chemical Society highlighted a boron-containing agent designed for targeted delivery to liver cancer cells using Boron Neutron Capture Therapy. Additionally, boron nitride quantum dots, known as white graphene, are being investigated for their biocompatibility and unique chemical, optical, electrochemical, and catalytic properties, suggesting vast potential in sensing, photocatalysis, chemotherapy, bioimaging, and metal ion detection. The increasing application of boron nanoparticles is anticipated to further stimulate market growth in the coming years.

## **Country Insights**

The South and Central America boron market is primarily composed of Brazil, Argentina, and other regions. Brazil accounted for the largest market share in 2023, being one of the leading glass producers in the area with 3,365 glass manufacturing companies. São Paulo is the main hub for glass production in Brazil, which is also benefiting from both domestic and export opportunities.

The agricultural sector in Brazil is a significant driver of economic growth, with the country being the fourth largest global producer of grains such as rice, barley, soybeans, corn, and wheat, contributing to 7.8% of global production according to the

Food and Agriculture Organization (FAO). The expansion of the agricultural industry is expected to increase the demand for crop protection chemicals, further driving the boron market in Brazil.

## **Company Profiles**

Key players in the boron market include Hoganas AB, 3M Co, Ube Corporation, Arkema SA, JFE Mineral & Alloy Co Ltd, Tokyo Chemical Industry Co Ltd, Rio Tinto Ltd, Compagnie de Saint Gobain SA, Eti Maden, Nippon Denko Co., Ltd., Stella Chemifa Corporation, FREEMAN (JAPAN) CO., LTD, KROSAKI HARIMA CORPORATION, Washington Mills Electro Minerals Limited, and Boron Specialties LLC. These companies are pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products.

## **Reason to buy**

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the South & Central America boron market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in South & Central America boron market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth South & Central America market trends and outlook coupled with the factors driving the boron market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin security interest with respect to client products, segmentation, pricing, and distribution.

## **Companies**

Hoganas AB

3M Co

Ube Corporation

Arkema SA

JFE Mineral & Alloy Co Ltd

Tokyo Chemical Industry Co Ltd

Rio Tinto Ltd

Compagnie de Saint Gobain SA

Eti Maden

Nippon Denko Co., Ltd.

Stella Chemifa Corporation

FREEMAN (JAPAN) CO., LTD.

KROSAKI HARIMA CORPORATION

Washington Mills Electro Minerals Limited

Boron Specialties, LLC

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