

# Global Boron-10 Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Boron-10 market size was valued at USD 40 million in 2023 and is forecast to a readjusted size of USD 69 million by 2030 with a CAGR of 8.2% during review period.

Boron 10 Metal (Boron-10) is a stable (non-radioactive) isotope of Boron. It is both naturally occurring and a produced by fission, as target materials and other applications. Boron Metal 10 additionally has special application in extrinsic food labeling used to determine boron metabolism. Boron Metal is also available in ultra high purity and as nanoparticles. For thin film applications it is available as rod, pellets, pieces, granules and sputtering targets and as either an ingot or powder. Boron-10 isotope, chemical formula  $^{10}\text{B}$ , can be used in neutron counter tubes, used as shields and control rods in nuclear reactors. Boron-10 is used in boron neutron capture therapy as an experimental treatment of some brain cancers.

Global key players of Boron-10 include 3M, Liaoning Honghao Chemical and Stella Chemifa, etc. The top three players hold a share about 80%. 3M is the largest manufacturers of Boron-10 in the world, has a share about 45%. China is the largest market, has a share about 30%. In terms of product type, Boron 10 Acid is the largest segment, occupied for a share of about 55%, and in terms of application, Nuclear Industry has a share about 85 percent.

The Global Info Research report includes an overview of the development of the Boron-10 industry chain, the market status of Nuclear Industry (Elemental Boron 10, Boron 10 Acid), Defence Industry (Elemental Boron 10, Boron 10 Acid), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Boron-10.

Regionally, the report analyzes the Boron-10 markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Boron-10 market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Boron-10 market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Boron-10 industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Elemental Boron 10, Boron 10 Acid).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Boron-10 market.

**Regional Analysis:** The report involves examining the Boron-10 market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Boron-10 market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Boron-10:

**Company Analysis:** Report covers individual Boron-10 manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Boron-10. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Nuclear Industry, Defence Industry).

**Technology Analysis:** Report covers specific technologies relevant to Boron-10. It assesses the current state, advancements, and potential future developments in Boron-10 areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Boron-10 market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Boron-10 market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Elemental Boron 10

Boron 10 Acid

Others

### Market segment by Application

Nuclear Industry

Defence Industry

Medical Treatment

Others

Major players covered

3M

Stella Chemifa

Dalian Boronten Sci&Tech

NHTC

Liaoning Honghao Chemical

Heavy Water Board (HWB)

Shandong Chengwu Yixin

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Boron-10 product scope, market overview, market estimation

caveats and base year.

Chapter 2, to profile the top manufacturers of Boron-10, with price, sales, revenue and global market share of Boron-10 from 2019 to 2024.

Chapter 3, the Boron-10 competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Boron-10 breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Boron-10 market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Boron-10.

Chapter 14 and 15, to describe Boron-10 sales channel, distributors, customers, research findings and conclusion.

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