

# Global Nuclear Industry Grade Boron Isotopes Market Growth 2026-2032

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## Abstracts

The global Nuclear Industry Grade Boron Isotopes market size is predicted to grow from US\$ 333 million in 2025 to US\$ 551 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

In 2025, global sales of nuclear-grade boron isotopes reached 810 tons, with an average selling price of US\$420,000 per ton.

Nuclear-grade boron isotopes, with boron-10 ( $^{10}\text{B}$ ) as their core, have a natural abundance of only 19.78%. However, after enrichment through isotope separation technology, their thermal neutron absorption cross-section reaches 3837 bar. They are key materials for nuclear reactor safety control and are widely used in control rods, shielding panels, and neutron counters. The upstream sector involves boron ore mining and isotope separation technologies (such as cryogenic distillation and chemical exchange). The midstream sector involves the production of intermediates such as boron-10 enriched acid, boron carbide-10, and boron trifluoride-11. Downstream applications include nuclear reactor control rods, shielding materials, boron neutron capture therapy (BNCT), and semiconductor doping.

Key market drivers primarily include the following factors:

### Demand for Nuclear Reaction Control Serves as a Fundamental Pillar

Market demand for nuclear-grade boron isotopes stems primarily from the long-term requirement for neutron-absorbing materials within nuclear reactors. Boron—specifically materials containing enriched boron isotopes—is frequently utilized in reactor control rods, burnable poisons, shielding materials, and certain coolant chemistry control

systems; it functions by absorbing neutrons to regulate reactivity and ensure the operational stability of the reactor core. The operation of nuclear power plants, the maintenance of research reactors, and the development of new reactor designs all necessitate boron materials characterized by high purity, compositional stability, and traceable nuclear-grade quality. Consequently, these products are subject to significant technical barriers and rigorous certification requirements.

### Heightened Requirements for Nuclear Safety and Material Reliability

Nuclear industry environments impose extremely stringent requirements regarding material consistency, impurity control, radiation stability, and long-term operational reliability; standard industrial-grade boron materials are typically insufficient to meet the demanding conditions of nuclear-grade applications. Once boron isotope materials are deployed in reaction control, shielding, or safety-critical components, any fluctuations in their quality could potentially compromise the reactor's physical performance and operational safety. As a result, customers place increased emphasis on isotopic abundance, chemical purity, batch-to-batch consistency, quality documentation, and supplier credentials. As safety standards for nuclear power operations continue to be reinforced, the value associated with the high-end quality and reliable supply of nuclear-grade boron isotopes is further enhanced.

### Emerging Nuclear Energy Technologies and Supply Chain Security Drive Long-Term Demand

The advancement of advanced nuclear power technologies—including small modular reactors (SMRs), fast reactors, research reactors, and various nuclear technology applications—is creating new avenues of demand for nuclear-grade boron isotope materials. Certain novel reactor designs and specialized nuclear applications impose more stringent requirements on the structural forms, thermal stability, and service environments of neutron-absorbing materials, thereby driving the development of boron isotope materials toward greater purity, customization, and modularization.

Concurrently, given the highly strategic nature of the nuclear industry, end-users place significant emphasis on the independent control, long-term reliability of supply, and localized support for critical materials; consequently, supply chain security is poised to become a key driver of market growth.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear Industry Grade Boron Isotopes Industry Forecast" looks at past sales and reviews total world Nuclear Industry Grade Boron Isotopes sales in 2025, providing a comprehensive analysis by region and

market sector of projected Nuclear Industry Grade Boron Isotopes sales for 2026 through 2032. With Nuclear Industry Grade Boron Isotopes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Industry Grade Boron Isotopes industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Industry Grade Boron Isotopes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Industry Grade Boron Isotopes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Industry Grade Boron Isotopes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Industry Grade Boron Isotopes and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear Industry Grade Boron Isotopes.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Industry Grade Boron Isotopes market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Liquid

Solid

Gaseous

#### Segmentation by Isotopic Abundance:

Boron-10

Boron-11

Others

#### Segmentation by Technology:

Low-temperature Distillation Method

Chemical Exchange Method

#### Segmentation by Application:

Nuclear Power

Semiconductors

Others

#### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

3M?US?

Stella Chemifa?JP?

Dofluoride?CN?

Honghao Chemical?CN?

China General Nuclear Power Group?CN?

Laimu Technology?CN?

Rosatom?RU?

Westinghouse?US?

NUKEM Isotopes GmbH?DE?

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Nuclear Industry Grade Boron Isotopes market?

What factors are driving Nuclear Industry Grade Boron Isotopes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Industry Grade Boron Isotopes market opportunities vary by end market size?

How does Nuclear Industry Grade Boron Isotopes break out by Type, by Application?

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