

Global Nuclear Industry Grade Boron Isotopes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nuclear Industry Grade Boron Isotopes market size was valued at US\$ 350 million in 2025 and is forecast to a readjusted size of US\$ 566 million by 2032 with a CAGR of 6.7% during review period.

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}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.

This report is a detailed and comprehensive analysis for global Nuclear Industry Grade Boron Isotopes market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nuclear Industry Grade Boron Isotopes market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Nuclear Industry Grade Boron Isotopes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Nuclear Industry Grade Boron Isotopes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Nuclear Industry Grade Boron Isotopes market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nuclear Industry Grade Boron Isotopes

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nuclear Industry Grade Boron Isotopes market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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?, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nuclear Industry Grade Boron Isotopes market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Liquid

Solid

Gaseous

Market segment by Isotopic Abundance

Boron-10

Boron-11

Others

Market segment by Technology

Low-temperature Distillation Method

Chemical Exchange Method

Market segment by Application

Nuclear Power

Semiconductors

Others

Major players covered

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?

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 Nuclear Industry Grade Boron Isotopes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nuclear Industry Grade Boron Isotopes, with price, sales quantity, revenue, and global market share of Nuclear Industry Grade Boron Isotopes from 2021 to 2026.

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

Chapter 4, the Nuclear Industry Grade Boron Isotopes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Nuclear Industry Grade Boron Isotopes market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Nuclear Industry Grade Boron Isotopes.

Chapter 14 and 15, to describe Nuclear Industry Grade Boron Isotopes sales channel, distributors, customers, research findings and conclusion.

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