

Global Enriched 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 Enriched Boron Isotopes market size was valued at US\$ 120 million in 2025 and is forecast to a readjusted size of US\$ 454 million by 2032 with a CAGR of 21.1% during review period.

Boron (atomic weight: 10.811(7)) has 14 known isotopes, with mass numbers ranging from 7 to 19. Two of these are stable, while the others are radioactive. Two naturally occurring boron isotopes, ^{10}B and ^{11}B , are stable. Other radioactive isotopes do not occur in nature and have only been produced in laboratories. They also have extremely short half-lives and are very unstable. Enriched boron isotopes refer to boron-10 or boron-11 that have been processed through isotope separation to achieve high isotopic purity. In 2024, global Enriched Boron Isotopes sales reached approximately 22,985 kg, with an average global market price of around US\$ 4,606 per kg.

The enriched boron isotope market is primarily driven by three major sectors: nuclear power, semiconductors, and boron neutron capture therapy (BNCT). In the late 20th century, the rapid growth of the electronics industry led to increasing demand for high-purity electronic specialty gases, fueling the development and expansion of the specialty gas sector. As electronic and semiconductor technologies continue to advance, dopant gases used to alter the local electrical properties of semiconductor materials have seen strong growth, with boron trifluoride-11 being one of the key types. In the medical field, BNCT offers highly selective tumor-killing capability for difficult-to-treat cancers such as gliomas and recurrent head-and-neck cancers, and the substantial patient population combined with strong demand for innovative therapies is accelerating its clinical adoption. In the nuclear sector, the rising demand for nuclear-grade boron-10 boric acid in new-generation reactors further supports the expansion of

the enriched boron isotope market.

This report is a detailed and comprehensive analysis for global Enriched 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 Enriched Boron Isotopes market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

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

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

Global Enriched Boron Isotopes market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Enriched 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 Enriched 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, Stella Chemifa, Liaoning Honghao Chemical, NHTC, Heavy Water Board (HWB), Shandong Heyi Gas, Dalian Boronten Sci&Tech, Shandong Zhongshan Photoelectric Materials, Shandong Chengwu Yixin, RAMON Science & Technology, etc.

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

Market Segmentation

Enriched 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

Elemental Boron 10

Boron 10 Acid

Elemental Boron 11

Boron 11 Acid

Others

Market segment by Purity

95%

99%

Market segment by Form

Powder

Others

Market segment by Application

Nuclear Industry

Semiconductor Industry

Defence Industry

Nuclear Medicine

Others

Major players covered

3M

Stella Chemifa

Liaoning Honghao Chemical

NHTC

Heavy Water Board (HWB)

Shandong Heyi Gas

Dalian Boronten Sci&Tech

Shandong Zhongshan Photoelectric Materials

Shandong Chengwu Yixin

RAMON Science & Technology

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 Enriched Boron Isotopes product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Enriched 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 Enriched 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 Enriched Boron Isotopes.

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

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