

# Global Lanthanum Hexaboride Market Growth 2026-2032

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## Abstracts

The global Lanthanum Hexaboride market size is predicted to grow from US\$ 291 million in 2025 to US\$ 470 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

Lanthanum Hexaboride (LaB<sub>6</sub>) is a refractory ceramic compound composed of lanthanum and boron, widely valued for its exceptionally low work function, high melting point (~2,528°C), and excellent thermionic emission properties, making it a critical material for electron emission applications such as cathodes in electron microscopes, ion thrusters, vacuum tubes, and advanced semiconductor inspection systems. The supply chain begins upstream with the extraction and refining of lanthanum (primarily from rare earth ores like bastnäsite and monazite) and boron (from borates such as borax and colemanite), followed by midstream synthesis through high-temperature solid-state reactions or carbothermal reduction to produce LaB<sub>6</sub> powders or dense sintered targets. Downstream, these materials are processed into cathodes, sputtering targets, and emitter components by specialized manufacturers, then integrated into end-use systems across industries including semiconductor equipment, aerospace propulsion, defense electronics, and scientific instrumentation, with demand closely tied to advanced imaging, vacuum electronics, and space technology development. In 2025, global Lanthanum Hexaboride output was about 14,000 tons with 20,000 tons of capacity, average prices of USD 19,000-38,000 per ton, and gross margins around 35%.

United States market for Lanthanum Hexaboride is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Lanthanum Hexaboride is estimated to increase from US\$ million in

2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Lanthanum Hexaboride is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Lanthanum Hexaboride players cover American Elements (USA), Stanford Advanced Materials (USA), Heeger Materials (USA), Edgetech Industries (USA), H?gan?s (Sweden), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Lanthanum Hexaboride Industry Forecast? looks at past sales and reviews total world Lanthanum Hexaboride sales in 2025, providing a comprehensive analysis by region and market sector of projected Lanthanum Hexaboride sales for 2026 through 2032. With Lanthanum Hexaboride sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Lanthanum Hexaboride industry.

This Insight Report provides a comprehensive analysis of the global Lanthanum Hexaboride 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 Lanthanum Hexaboride portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lanthanum Hexaboride market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lanthanum Hexaboride 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 Lanthanum Hexaboride.

This report presents a comprehensive overview, market shares, and growth opportunities of Lanthanum Hexaboride market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

LaB? Powder

LaB? Granule

LaB? Rod

LaB? Sputtering Target

LaB? Single Crystal

#### Segmentation by Purity Level:

Industrial Grade (99-99.5%)

High-Purity Grade (99.5?99.9%)

Ultra-High-Purity Grade (>99.9%)

#### Segmentation by Application:

Semiconductor

Aerospace & Defense

Energy System

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.

American Elements (USA)

Stanford Advanced Materials (USA)

Heeger Materials (USA)

Edgetech Industries (USA)

H?gan?s (Sweden)

Nanografi (Turkey)

Furuuchi Chemical (Japan)

Suzhou KP Chemical (China)

Xinglu Chemical Technology (China)

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Lanthanum Hexaboride market?

What factors are driving Lanthanum Hexaboride market growth, globally and by region?

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

How do Lanthanum Hexaboride market opportunities vary by end market size?

How does Lanthanum Hexaboride break out by Type, by Application?



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