

Global Lanthanum Hexaboride 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 Lanthanum Hexaboride market size was valued at US\$ 306 million in 2025 and is forecast to a readjusted size of US\$ 482 million by 2032 with a CAGR of 6.7% during review period.

Lanthanum Hexaboride (LaB₆) 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 LaB₆ 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%.

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

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

Global Lanthanum Hexaboride 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 Lanthanum Hexaboride 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 Lanthanum Hexaboride

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 Lanthanum Hexaboride 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 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), etc.

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

Market Segmentation

Lanthanum Hexaboride 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

LaB? Powder

LaB? Granule

LaB? Rod

LaB? Sputtering Target

LaB? Single Crystal

Market segment by Purity Level

Industrial Grade (99-99.5%)

High-Purity Grade (99.5?99.9%)

Ultra-High-Purity Grade (>99.9%)

Market segment by Application

Semiconductor

Aerospace & Defense

Energy System

Others

Major players covered

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)

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 Lanthanum Hexaboride product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Lanthanum Hexaboride 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 Lanthanum Hexaboride 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 Lanthanum Hexaboride.

Chapter 14 and 15, to describe Lanthanum Hexaboride sales channel, distributors, customers, research findings and conclusion.

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