

Global Lanthanum Hexaboride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lanthanum Hexaboride market size is expected to reach \$ 482 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

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 studies the global Lanthanum Hexaboride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lanthanum Hexaboride and provides market size (US\$ million) and Year-over-Year (YoY) Growth,

considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lanthanum Hexaboride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lanthanum Hexaboride total production and demand, 2021-2032, (Tons)

Global Lanthanum Hexaboride total production value, 2021-2032, (USD Million)

Global Lanthanum Hexaboride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Lanthanum Hexaboride consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Lanthanum Hexaboride domestic production, consumption, key domestic manufacturers and share

Global Lanthanum Hexaboride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Lanthanum Hexaboride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Lanthanum Hexaboride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Lanthanum Hexaboride market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lanthanum Hexaboride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lanthanum Hexaboride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lanthanum Hexaboride Market, Segmentation by Type:

LaB₆ Powder

LaB₆ Granule

LaB₆ Rod

LaB₆ Sputtering Target

LaB₆ Single Crystal

Global Lanthanum Hexaboride Market, Segmentation by Purity Level:

Industrial Grade (99-99.5%)

High-Purity Grade (99.5?99.9%)

Ultra-High-Purity Grade (>99.9%)

Global Lanthanum Hexaboride Market, Segmentation by Application:

Semiconductor

Aerospace & Defense

Energy System

Others

Companies Profiled:

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 Answered:

1. How big is the global Lanthanum Hexaboride market?

2. What is the demand of the global Lanthanum Hexaboride market?
3. What is the year over year growth of the global Lanthanum Hexaboride market?
4. What is the production and production value of the global Lanthanum Hexaboride market?
5. Who are the key producers in the global Lanthanum Hexaboride market?
6. What are the growth factors driving the market demand?

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