

Global Lithium Triborate Crystal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium Triborate Crystal market size is expected to reach \$ 464 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

LBO (Lithium Triborate, LiB_3O_7) is a typical nonlinear optical crystal characterized by a wide transmission range, high laser damage threshold, good chemical and mechanical stability, and the ability to achieve critical/non-critical phase matching. As such, it is particularly well-suited for second-harmonic generation (SHG), third-harmonic generation (THG), sum frequency generation (SFG), and optical parametric oscillation/amplification (OPO/OPA).

In terms of application positioning, LBO is one of the "workhorse" crystals among high-power laser frequency conversion materials, and is particularly common in 1064 nm \rightarrow 532 nm green light, 1064 nm \rightarrow 355 nm ultraviolet, high-energy pulsed lasers, ultrafast lasers, and OPO/OPA systems.

In 2025, global LBO (Lithium Triborate, LiB_3O_7) sales volume reached 381,850 units, with an average price of \$658 per unit.

Development Trends

Continued Growth Driven by Industrial UV Lasers

LBO has matured in applications for the 1064 nm \rightarrow 532 nm and 355 nm conversion paths, while demand for UV lasers in high-end microprocessing, PCB/FPC, and semiconductor precision processing is growing steadily, which will continue to support LBO demand.

High-Power and High-Repetition-Rate Applications Are More Favorable for LBO

LBO's high damage threshold and thermal stability give it an advantage in high-power solid-state laser upgrades. Suppliers generally highlight "high power, high efficiency, and high damage threshold" as selling points.

Ultrafast Lasers / OPCPA Emerge as a High-Value-Added Direction

Raicol directly links LBO to petawatt-class OPCPA. While this segment may not represent the largest volume, it features high technical complexity, high unit prices, and lengthy certification cycles, making it a submarket with strong future profit margins.

Shifting from "Selling Crystals" to "Selling Devices"

Competition in the bare crystal market will become increasingly intense, and true value will shift toward precision cutting, coating, mounting, packaging, and reliability verification.

Large Size and Higher Consistency Are Long-Term Competitive Factors

Public literature indicates that growing large-size, high-quality LBO crystals remains a long-term process challenge. Therefore, future competition will not be limited to price but will also center on size, defect control, absorption loss, damage threshold, and batch consistency.

This report studies the global Lithium Triborate Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Triborate Crystal 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 Lithium Triborate Crystal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium Triborate Crystal total production and demand, 2021-2032, (k Units)

Global Lithium Triborate Crystal total production value, 2021-2032, (USD Million)

Global Lithium Triborate Crystal production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (k Units), (based on production site)

Global Lithium Triborate Crystal consumption by region & country, CAGR, 2021-2032 & (k Units)

U.S. VS China: Lithium Triborate Crystal domestic production, consumption, key domestic manufacturers and share

Global Lithium Triborate Crystal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (k Units)

Global Lithium Triborate Crystal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (k Units)

Global Lithium Triborate Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (k Units)

This report profiles key players in the global Lithium Triborate Crystal 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 CASTECH, EK SMA Optics, Raicol Crystals, CRYLINK, Dien Tech, Newlight Photonics, United Crystals, OptoCity, Shape Optics / SOT, Gamdan Optics, 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 Lithium Triborate Crystal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (k Units) and average price (US\$/Unit) 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 Lithium Triborate Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Triborate Crystal Market, Segmentation by Type:

SHG (Second Harmonic Generation)

THG (Third Harmonic Generation) / SFG (Sum Frequency Generation)

Others

Global Lithium Triborate Crystal Market, Segmentation by Product Formats:

Uncoated LBO Crystals

Coated LBO Crystals

Other

Global Lithium Triborate Crystal Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global Lithium Triborate Crystal Market, Segmentation by Application:

Industrial Lasers

Medical Lasers

Research Lasers

Defense and Aerospace

Companies Profiled:

CASTECH

EKSMA Optics

Raicol Crystals

CRYLINK

Dien Tech

Newlight Photonics

United Crystals

OptoCity

Shape Optics / SOT

Gamdan Optics

LAS Photonics

Opticrystal Material

Key Questions Answered:

1. How big is the global Lithium Triborate Crystal market?
2. What is the demand of the global Lithium Triborate Crystal market?

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

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