

# Global Lithium Triborate (LBO) Crystal Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium Triborate (LBO) 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,  $\text{LiB}_3\text{O}_7$ ) 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,  $\text{LiB}_3\text{O}_7$ ) 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 (LBO) Crystal production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

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

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

Global Lithium Triborate (LBO) Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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

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

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

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

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

This report profiles key players in the global Lithium Triborate (LBO) 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, EKSMA 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 (LBO) 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 (LBO) Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Triborate (LBO) Crystal Market, Segmentation by Type:

SHG (Second Harmonic Generation)

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

Others

Global Lithium Triborate (LBO) Crystal Market, Segmentation by Product Formats:

Uncoated LBO Crystals

Coated LBO Crystals

Other

Global Lithium Triborate (LBO) Crystal Market, Segmentation by Sales Channels:

Direct Sales

Distribution

## Global Lithium Triborate (LBO) 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

Gamdán Optics

LAS Photonics

Opticrystal Material

## Key Questions Answered:

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Lithium Triborate (LBO) Crystal Introduction
- 1.2 World Lithium Triborate (LBO) Crystal Supply & Forecast
  - 1.2.1 World Lithium Triborate (LBO) Crystal Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Lithium Triborate (LBO) Crystal Production (2021-2032)
  - 1.2.3 World Lithium Triborate (LBO) Crystal Pricing Trends (2021-2032)
- 1.3 World Lithium Triborate (LBO) Crystal Production by Region (Based on Production Site)
  - 1.3.1 World Lithium Triborate (LBO) Crystal Production Value by Region (2021-2032)
  - 1.3.2 World Lithium Triborate (LBO) Crystal Production by Region (2021-2032)
  - 1.3.3 World Lithium Triborate (LBO) Crystal Average Price by Region (2021-2032)
  - 1.3.4 North America Lithium Triborate (LBO) Crystal Production (2021-2032)
  - 1.3.5 Europe Lithium Triborate (LBO) Crystal Production (2021-2032)
  - 1.3.6 China Lithium Triborate (LBO) Crystal Production (2021-2032)
  - 1.3.7 Japan Lithium Triborate (LBO) Crystal Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Lithium Triborate (LBO) Crystal Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Lithium Triborate (LBO) Crystal Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Lithium Triborate (LBO) Crystal Demand (2021-2032)
- 2.2 World Lithium Triborate (LBO) Crystal Consumption by Region
  - 2.2.1 World Lithium Triborate (LBO) Crystal Consumption by Region (2021-2026)
  - 2.2.2 World Lithium Triborate (LBO) Crystal Consumption Forecast by Region (2027-2032)
- 2.3 United States Lithium Triborate (LBO) Crystal Consumption (2021-2032)
- 2.4 China Lithium Triborate (LBO) Crystal Consumption (2021-2032)
- 2.5 Europe Lithium Triborate (LBO) Crystal Consumption (2021-2032)
- 2.6 Japan Lithium Triborate (LBO) Crystal Consumption (2021-2032)
- 2.7 South Korea Lithium Triborate (LBO) Crystal Consumption (2021-2032)
- 2.8 ASEAN Lithium Triborate (LBO) Crystal Consumption (2021-2032)
- 2.9 India Lithium Triborate (LBO) Crystal Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Lithium Triborate (LBO) Crystal Production Value by Manufacturer (2021-2026)
- 3.2 World Lithium Triborate (LBO) Crystal Production by Manufacturer (2021-2026)
- 3.3 World Lithium Triborate (LBO) Crystal Average Price by Manufacturer (2021-2026)
- 3.4 Lithium Triborate (LBO) Crystal Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Lithium Triborate (LBO) Crystal Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Lithium Triborate (LBO) Crystal in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Lithium Triborate (LBO) Crystal in 2025
- 3.6 Lithium Triborate (LBO) Crystal Market: Overall Company Footprint Analysis
  - 3.6.1 Lithium Triborate (LBO) Crystal Market: Region Footprint
  - 3.6.2 Lithium Triborate (LBO) Crystal Market: Company Product Type Footprint
  - 3.6.3 Lithium Triborate (LBO) Crystal Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Lithium Triborate (LBO) Crystal Production Value Comparison
  - 4.1.1 United States VS China: Lithium Triborate (LBO) Crystal Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Lithium Triborate (LBO) Crystal Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Lithium Triborate (LBO) Crystal Production Comparison
  - 4.2.1 United States VS China: Lithium Triborate (LBO) Crystal Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Lithium Triborate (LBO) Crystal Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Lithium Triborate (LBO) Crystal Consumption Comparison
  - 4.3.1 United States VS China: Lithium Triborate (LBO) Crystal Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Lithium Triborate (LBO) Crystal Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based Lithium Triborate (LBO) Crystal Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Lithium Triborate (LBO) Crystal Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Lithium Triborate (LBO) Crystal Production Value (2021-2026)

4.4.3 United States Based Manufacturers Lithium Triborate (LBO) Crystal Production (2021-2026)

#### 4.5 China Based Lithium Triborate (LBO) Crystal Manufacturers and Market Share

4.5.1 China Based Lithium Triborate (LBO) Crystal Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Lithium Triborate (LBO) Crystal Production Value (2021-2026)

4.5.3 China Based Manufacturers Lithium Triborate (LBO) Crystal Production (2021-2026)

#### 4.6 Rest of World Based Lithium Triborate (LBO) Crystal Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Lithium Triborate (LBO) Crystal Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production (2021-2026)

### **5 MARKET ANALYSIS BY TYPE**

#### 5.1 World Lithium Triborate (LBO) Crystal Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 SHG (Second Harmonic Generation)

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

5.2.3 Others

#### 5.3 Market Segment by Type

5.3.1 World Lithium Triborate (LBO) Crystal Production by Type (2021-2032)

5.3.2 World Lithium Triborate (LBO) Crystal Production Value by Type (2021-2032)

5.3.3 World Lithium Triborate (LBO) Crystal Average Price by Type (2021-2032)

### **6 MARKET ANALYSIS BY PRODUCT FORMATS**

6.1 World Lithium Triborate (LBO) Crystal Market Size Overview by Product Formats: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Formats

6.2.1 Uncoated LBO Crystals

6.2.2 Coated LBO Crystals

6.2.3 Other

6.3 Market Segment by Product Formats

6.3.1 World Lithium Triborate (LBO) Crystal Production by Product Formats (2021-2032)

6.3.2 World Lithium Triborate (LBO) Crystal Production Value by Product Formats (2021-2032)

6.3.3 World Lithium Triborate (LBO) Crystal Average Price by Product Formats (2021-2032)

## **7 MARKET ANALYSIS BY SALES CHANNELS**

7.1 World Lithium Triborate (LBO) Crystal Market Size Overview by Sales Channels: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales Channels

7.2.1 Direct Sales

7.2.2 Distribution

7.3 Market Segment by Sales Channels

7.3.1 World Lithium Triborate (LBO) Crystal Production by Sales Channels (2021-2032)

7.3.2 World Lithium Triborate (LBO) Crystal Production Value by Sales Channels (2021-2032)

7.3.3 World Lithium Triborate (LBO) Crystal Average Price by Sales Channels (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Lithium Triborate (LBO) Crystal Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Lasers

8.2.2 Medical Lasers

8.2.3 Research Lasers

8.2.4 Defense and Aerospace

8.3 Market Segment by Application

- 8.3.1 World Lithium Triborate (LBO) Crystal Production by Application (2021-2032)
- 8.3.2 World Lithium Triborate (LBO) Crystal Production Value by Application (2021-2032)
- 8.3.3 World Lithium Triborate (LBO) Crystal Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

### **9.1 CASTECH**

- 9.1.1 CASTECH Details
- 9.1.2 CASTECH Major Business
- 9.1.3 CASTECH Lithium Triborate (LBO) Crystal Product and Services
- 9.1.4 CASTECH Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 CASTECH Recent Developments/Updates
- 9.1.6 CASTECH Competitive Strengths & Weaknesses

### **9.2 EKSMA Optics**

- 9.2.1 EKSMA Optics Details
- 9.2.2 EKSMA Optics Major Business
- 9.2.3 EKSMA Optics Lithium Triborate (LBO) Crystal Product and Services
- 9.2.4 EKSMA Optics Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 EKSMA Optics Recent Developments/Updates
- 9.2.6 EKSMA Optics Competitive Strengths & Weaknesses

### **9.3 Raicol Crystals**

- 9.3.1 Raicol Crystals Details
- 9.3.2 Raicol Crystals Major Business
- 9.3.3 Raicol Crystals Lithium Triborate (LBO) Crystal Product and Services
- 9.3.4 Raicol Crystals Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Raicol Crystals Recent Developments/Updates
- 9.3.6 Raicol Crystals Competitive Strengths & Weaknesses

### **9.4 CRYLINK**

- 9.4.1 CRYLINK Details
- 9.4.2 CRYLINK Major Business
- 9.4.3 CRYLINK Lithium Triborate (LBO) Crystal Product and Services
- 9.4.4 CRYLINK Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 CRYLINK Recent Developments/Updates
- 9.4.6 CRYLINK Competitive Strengths & Weaknesses

## 9.5 Dien Tech

### 9.5.1 Dien Tech Details

### 9.5.2 Dien Tech Major Business

### 9.5.3 Dien Tech Lithium Triborate (LBO) Crystal Product and Services

### 9.5.4 Dien Tech Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.5.5 Dien Tech Recent Developments/Updates

### 9.5.6 Dien Tech Competitive Strengths & Weaknesses

## 9.6 Newlight Photonics

### 9.6.1 Newlight Photonics Details

### 9.6.2 Newlight Photonics Major Business

### 9.6.3 Newlight Photonics Lithium Triborate (LBO) Crystal Product and Services

### 9.6.4 Newlight Photonics Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Newlight Photonics Recent Developments/Updates

### 9.6.6 Newlight Photonics Competitive Strengths & Weaknesses

## 9.7 United Crystals

### 9.7.1 United Crystals Details

### 9.7.2 United Crystals Major Business

### 9.7.3 United Crystals Lithium Triborate (LBO) Crystal Product and Services

### 9.7.4 United Crystals Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.7.5 United Crystals Recent Developments/Updates

### 9.7.6 United Crystals Competitive Strengths & Weaknesses

## 9.8 OptoCity

### 9.8.1 OptoCity Details

### 9.8.2 OptoCity Major Business

### 9.8.3 OptoCity Lithium Triborate (LBO) Crystal Product and Services

### 9.8.4 OptoCity Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.8.5 OptoCity Recent Developments/Updates

### 9.8.6 OptoCity Competitive Strengths & Weaknesses

## 9.9 Shape Optics / SOT

### 9.9.1 Shape Optics / SOT Details

### 9.9.2 Shape Optics / SOT Major Business

### 9.9.3 Shape Optics / SOT Lithium Triborate (LBO) Crystal Product and Services

### 9.9.4 Shape Optics / SOT Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.9.5 Shape Optics / SOT Recent Developments/Updates

- 9.9.6 Shape Optics / SOT Competitive Strengths & Weaknesses
- 9.10 Gamdan Optics
  - 9.10.1 Gamdan Optics Details
  - 9.10.2 Gamdan Optics Major Business
  - 9.10.3 Gamdan Optics Lithium Triborate (LBO) Crystal Product and Services
  - 9.10.4 Gamdan Optics Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Gamdan Optics Recent Developments/Updates
  - 9.10.6 Gamdan Optics Competitive Strengths & Weaknesses
- 9.11 LAS Photonics
  - 9.11.1 LAS Photonics Details
  - 9.11.2 LAS Photonics Major Business
  - 9.11.3 LAS Photonics Lithium Triborate (LBO) Crystal Product and Services
  - 9.11.4 LAS Photonics Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 LAS Photonics Recent Developments/Updates
  - 9.11.6 LAS Photonics Competitive Strengths & Weaknesses
- 9.12 Opticrystal Material
  - 9.12.1 Opticrystal Material Details
  - 9.12.2 Opticrystal Material Major Business
  - 9.12.3 Opticrystal Material Lithium Triborate (LBO) Crystal Product and Services
  - 9.12.4 Opticrystal Material Lithium Triborate (LBO) Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Opticrystal Material Recent Developments/Updates
  - 9.12.6 Opticrystal Material Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Lithium Triborate (LBO) Crystal Industry Chain
- 10.2 Lithium Triborate (LBO) Crystal Upstream Analysis
  - 10.2.1 Lithium Triborate (LBO) Crystal Core Raw Materials
  - 10.2.2 Main Manufacturers of Lithium Triborate (LBO) Crystal Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Lithium Triborate (LBO) Crystal Production Mode
- 10.6 Lithium Triborate (LBO) Crystal Procurement Model
- 10.7 Lithium Triborate (LBO) Crystal Industry Sales Model and Sales Channels
  - 10.7.1 Lithium Triborate (LBO) Crystal Sales Model
  - 10.7.2 Lithium Triborate (LBO) Crystal Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Lithium Triborate (LBO) Crystal Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Lithium Triborate (LBO) Crystal Production Value by Region (2021-2026) & (USD Million)

Table 3. World Lithium Triborate (LBO) Crystal Production Value by Region (2027-2032) & (USD Million)

Table 4. World Lithium Triborate (LBO) Crystal Production Value Market Share by Region (2021-2026)

Table 5. World Lithium Triborate (LBO) Crystal Production Value Market Share by Region (2027-2032)

Table 6. World Lithium Triborate (LBO) Crystal Production by Region (2021-2026) & (K Units)

Table 7. World Lithium Triborate (LBO) Crystal Production by Region (2027-2032) & (K Units)

Table 8. World Lithium Triborate (LBO) Crystal Production Market Share by Region (2021-2026)

Table 9. World Lithium Triborate (LBO) Crystal Production Market Share by Region (2027-2032)

Table 10. World Lithium Triborate (LBO) Crystal Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Lithium Triborate (LBO) Crystal Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Lithium Triborate (LBO) Crystal Major Market Trends

Table 13. World Lithium Triborate (LBO) Crystal Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Lithium Triborate (LBO) Crystal Consumption by Region (2021-2026) & (K Units)

Table 15. World Lithium Triborate (LBO) Crystal Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Lithium Triborate (LBO) Crystal Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Lithium Triborate (LBO) Crystal Producers in 2025

Table 18. World Lithium Triborate (LBO) Crystal Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Lithium Triborate (LBO) Crystal Producers in 2025

Table 20. World Lithium Triborate (LBO) Crystal Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Lithium Triborate (LBO) Crystal Company Evaluation Quadrant

Table 22. World Lithium Triborate (LBO) Crystal Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Lithium Triborate (LBO) Crystal Production Site of Key Manufacturer

Table 24. Lithium Triborate (LBO) Crystal Market: Company Product Type Footprint

Table 25. Lithium Triborate (LBO) Crystal Market: Company Product Application Footprint

Table 26. Lithium Triborate (LBO) Crystal Competitive Factors

Table 27. Lithium Triborate (LBO) Crystal New Entrant and Capacity Expansion Plans

Table 28. Lithium Triborate (LBO) Crystal Mergers & Acquisitions Activity

Table 29. United States VS China Lithium Triborate (LBO) Crystal Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Lithium Triborate (LBO) Crystal Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Lithium Triborate (LBO) Crystal Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Lithium Triborate (LBO) Crystal Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Lithium Triborate (LBO) Crystal Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Lithium Triborate (LBO) Crystal Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Lithium Triborate (LBO) Crystal Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Lithium Triborate (LBO) Crystal Production Market Share (2021-2026)

Table 37. China Based Lithium Triborate (LBO) Crystal Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Lithium Triborate (LBO) Crystal Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Lithium Triborate (LBO) Crystal Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Lithium Triborate (LBO) Crystal Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Lithium Triborate (LBO) Crystal Production Market Share (2021-2026)

Table 42. Rest of World Based Lithium Triborate (LBO) Crystal Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production Market Share (2021-2026)

Table 47. World Lithium Triborate (LBO) Crystal Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Lithium Triborate (LBO) Crystal Production by Type (2021-2026) & (K Units)

Table 49. World Lithium Triborate (LBO) Crystal Production by Type (2027-2032) & (K Units)

Table 50. World Lithium Triborate (LBO) Crystal Production Value by Type (2021-2026) & (USD Million)

Table 51. World Lithium Triborate (LBO) Crystal Production Value by Type (2027-2032) & (USD Million)

Table 52. World Lithium Triborate (LBO) Crystal Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Lithium Triborate (LBO) Crystal Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Lithium Triborate (LBO) Crystal Production Value by Product Formats, (USD Million), 2021 & 2025 & 2032

Table 55. World Lithium Triborate (LBO) Crystal Production by Product Formats (2021-2026) & (K Units)

Table 56. World Lithium Triborate (LBO) Crystal Production by Product Formats (2027-2032) & (K Units)

Table 57. World Lithium Triborate (LBO) Crystal Production Value by Product Formats (2021-2026) & (USD Million)

Table 58. World Lithium Triborate (LBO) Crystal Production Value by Product Formats (2027-2032) & (USD Million)

Table 59. World Lithium Triborate (LBO) Crystal Average Price by Product Formats (2021-2026) & (US\$/Unit)

Table 60. World Lithium Triborate (LBO) Crystal Average Price by Product Formats

(2027-2032) & (US\$/Unit)

Table 61. World Lithium Triborate (LBO) Crystal Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Table 62. World Lithium Triborate (LBO) Crystal Production by Sales Channels (2021-2026) & (K Units)

Table 63. World Lithium Triborate (LBO) Crystal Production by Sales Channels (2027-2032) & (K Units)

Table 64. World Lithium Triborate (LBO) Crystal Production Value by Sales Channels (2021-2026) & (USD Million)

Table 65. World Lithium Triborate (LBO) Crystal Production Value by Sales Channels (2027-2032) & (USD Million)

Table 66. World Lithium Triborate (LBO) Crystal Average Price by Sales Channels (2021-2026) & (US\$/Unit)

Table 67. World Lithium Triborate (LBO) Crystal Average Price by Sales Channels (2027-2032) & (US\$/Unit)

Table 68. World Lithium Triborate (LBO) Crystal Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Lithium Triborate (LBO) Crystal Production by Application (2021-2026) & (K Units)

Table 70. World Lithium Triborate (LBO) Crystal Production by Application (2027-2032) & (K Units)

Table 71. World Lithium Triborate (LBO) Crystal Production Value by Application (2021-2026) & (USD Million)

Table 72. World Lithium Triborate (LBO) Crystal Production Value by Application (2027-2032) & (USD Million)

Table 73. World Lithium Triborate (LBO) Crystal Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Lithium Triborate (LBO) Crystal Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. CASTECH Basic Information, Manufacturing Base and Competitors

Table 76. CASTECH Major Business

Table 77. CASTECH Lithium Triborate (LBO) Crystal Product and Services

Table 78. CASTECH Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. CASTECH Recent Developments/Updates

Table 80. CASTECH Competitive Strengths & Weaknesses

Table 81. EKSMA Optics Basic Information, Manufacturing Base and Competitors

Table 82. EKSMA Optics Major Business

Table 83. EKSMA Optics Lithium Triborate (LBO) Crystal Product and Services

Table 84. EKSMA Optics Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. EKSMA Optics Recent Developments/Updates

Table 86. EKSMA Optics Competitive Strengths & Weaknesses

Table 87. Raicol Crystals Basic Information, Manufacturing Base and Competitors

Table 88. Raicol Crystals Major Business

Table 89. Raicol Crystals Lithium Triborate (LBO) Crystal Product and Services

Table 90. Raicol Crystals Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Raicol Crystals Recent Developments/Updates

Table 92. Raicol Crystals Competitive Strengths & Weaknesses

Table 93. CRYLINK Basic Information, Manufacturing Base and Competitors

Table 94. CRYLINK Major Business

Table 95. CRYLINK Lithium Triborate (LBO) Crystal Product and Services

Table 96. CRYLINK Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. CRYLINK Recent Developments/Updates

Table 98. CRYLINK Competitive Strengths & Weaknesses

Table 99. Dien Tech Basic Information, Manufacturing Base and Competitors

Table 100. Dien Tech Major Business

Table 101. Dien Tech Lithium Triborate (LBO) Crystal Product and Services

Table 102. Dien Tech Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Dien Tech Recent Developments/Updates

Table 104. Dien Tech Competitive Strengths & Weaknesses

Table 105. Newlight Photonics Basic Information, Manufacturing Base and Competitors

Table 106. Newlight Photonics Major Business

Table 107. Newlight Photonics Lithium Triborate (LBO) Crystal Product and Services

Table 108. Newlight Photonics Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Newlight Photonics Recent Developments/Updates

Table 110. Newlight Photonics Competitive Strengths & Weaknesses

Table 111. United Crystals Basic Information, Manufacturing Base and Competitors

- Table 112. United Crystals Major Business
- Table 113. United Crystals Lithium Triborate (LBO) Crystal Product and Services
- Table 114. United Crystals Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. United Crystals Recent Developments/Updates
- Table 116. United Crystals Competitive Strengths & Weaknesses
- Table 117. OptoCity Basic Information, Manufacturing Base and Competitors
- Table 118. OptoCity Major Business
- Table 119. OptoCity Lithium Triborate (LBO) Crystal Product and Services
- Table 120. OptoCity Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. OptoCity Recent Developments/Updates
- Table 122. OptoCity Competitive Strengths & Weaknesses
- Table 123. Shape Optics / SOT Basic Information, Manufacturing Base and Competitors
- Table 124. Shape Optics / SOT Major Business
- Table 125. Shape Optics / SOT Lithium Triborate (LBO) Crystal Product and Services
- Table 126. Shape Optics / SOT Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Shape Optics / SOT Recent Developments/Updates
- Table 128. Shape Optics / SOT Competitive Strengths & Weaknesses
- Table 129. Gamdan Optics Basic Information, Manufacturing Base and Competitors
- Table 130. Gamdan Optics Major Business
- Table 131. Gamdan Optics Lithium Triborate (LBO) Crystal Product and Services
- Table 132. Gamdan Optics Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Gamdan Optics Recent Developments/Updates
- Table 134. Gamdan Optics Competitive Strengths & Weaknesses
- Table 135. LAS Photonics Basic Information, Manufacturing Base and Competitors
- Table 136. LAS Photonics Major Business
- Table 137. LAS Photonics Lithium Triborate (LBO) Crystal Product and Services
- Table 138. LAS Photonics Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. LAS Photonics Recent Developments/Updates
- Table 140. LAS Photonics Competitive Strengths & Weaknesses

Table 141. Opticrystal Material Basic Information, Manufacturing Base and Competitors

Table 142. Opticrystal Material Major Business

Table 143. Opticrystal Material Lithium Triborate (LBO) Crystal Product and Services

Table 144. Opticrystal Material Lithium Triborate (LBO) Crystal Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Opticrystal Material Recent Developments/Updates

Table 146. Opticrystal Material Competitive Strengths & Weaknesses

Table 147. Global Key Players of Lithium Triborate (LBO) Crystal Upstream (Raw Materials)

Table 148. Global Lithium Triborate (LBO) Crystal Typical Customers

Table 149. Lithium Triborate (LBO) Crystal Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Lithium Triborate (LBO) Crystal Picture

Figure 2. World Lithium Triborate (LBO) Crystal Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Lithium Triborate (LBO) Crystal Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Lithium Triborate (LBO) Crystal Production (2021-2032) & (K Units)

Figure 5. World Lithium Triborate (LBO) Crystal Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Lithium Triborate (LBO) Crystal Production Value Market Share by Region (2021-2032)

Figure 7. World Lithium Triborate (LBO) Crystal Production Market Share by Region (2021-2032)

Figure 8. North America Lithium Triborate (LBO) Crystal Production (2021-2032) & (K Units)

Figure 9. Europe Lithium Triborate (LBO) Crystal Production (2021-2032) & (K Units)

Figure 10. China Lithium Triborate (LBO) Crystal Production (2021-2032) & (K Units)

Figure 11. Japan Lithium Triborate (LBO) Crystal Production (2021-2032) & (K Units)

Figure 12. Lithium Triborate (LBO) Crystal Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 15. World Lithium Triborate (LBO) Crystal Consumption Market Share by Region (2021-2032)

Figure 16. United States Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 17. China Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 18. Europe Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 19. Japan Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 20. South Korea Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 22. India Lithium Triborate (LBO) Crystal Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Lithium Triborate (LBO) Crystal by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Lithium Triborate (LBO) Crystal Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Lithium Triborate (LBO) Crystal Markets in 2025

Figure 26. United States VS China: Lithium Triborate (LBO) Crystal Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Lithium Triborate (LBO) Crystal Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Lithium Triborate (LBO) Crystal Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Lithium Triborate (LBO) Crystal Production Market Share 2025

Figure 30. China Based Manufacturers Lithium Triborate (LBO) Crystal Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Lithium Triborate (LBO) Crystal Production Market Share 2025

Figure 32. World Lithium Triborate (LBO) Crystal Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Lithium Triborate (LBO) Crystal Production Value Market Share by Type in 2025

Figure 34. SHG (Second Harmonic Generation)

Figure 35. THG (Third Harmonic Generation) / SFG (Sum Frequency Generation)

Figure 36. Others

Figure 37. World Lithium Triborate (LBO) Crystal Production Market Share by Type (2021-2032)

Figure 38. World Lithium Triborate (LBO) Crystal Production Value Market Share by Type (2021-2032)

Figure 39. World Lithium Triborate (LBO) Crystal Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Lithium Triborate (LBO) Crystal Production Value by Product Formats, (USD Million), 2021 & 2025 & 2032

Figure 41. World Lithium Triborate (LBO) Crystal Production Value Market Share by Product Formats in 2025

Figure 42. Uncoated LBO Crystals

Figure 43. Coated LBO Crystals

Figure 44. Other

Figure 45. World Lithium Triborate (LBO) Crystal Production Market Share by Product Formats (2021-2032)

Figure 46. World Lithium Triborate (LBO) Crystal Production Value Market Share by

Product Formats (2021-2032)

Figure 47. World Lithium Triborate (LBO) Crystal Average Price by Product Formats (2021-2032) & (US\$/Unit)

Figure 48. World Lithium Triborate (LBO) Crystal Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Figure 49. World Lithium Triborate (LBO) Crystal Production Value Market Share by Sales Channels in 2025

Figure 50. Direct Sales

Figure 51. Distribution

Figure 52. World Lithium Triborate (LBO) Crystal Production Market Share by Sales Channels (2021-2032)

Figure 53. World Lithium Triborate (LBO) Crystal Production Value Market Share by Sales Channels (2021-2032)

Figure 54. World Lithium Triborate (LBO) Crystal Average Price by Sales Channels (2021-2032) & (US\$/Unit)

Figure 55. World Lithium Triborate (LBO) Crystal Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Lithium Triborate (LBO) Crystal Production Value Market Share by Application in 2025

Figure 57. Industrial Lasers

Figure 58. Medical Lasers

Figure 59. Research Lasers

Figure 60. Defense and Aerospace

Figure 61. World Lithium Triborate (LBO) Crystal Production Market Share by Application (2021-2032)

Figure 62. World Lithium Triborate (LBO) Crystal Production Value Market Share by Application (2021-2032)

Figure 63. World Lithium Triborate (LBO) Crystal Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Lithium Triborate (LBO) Crystal Industry Chain

Figure 65. Lithium Triborate (LBO) Crystal Procurement Model

Figure 66. Lithium Triborate (LBO) Crystal Sales Model

Figure 67. Lithium Triborate (LBO) Crystal Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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