

Global CLBO Crystal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CLBO Crystal market size is expected to reach \$ 6.98 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

CLBO Crystal (Cesium Lithium Borate, CsLiB6O10) is a nonlinear optical crystal used for ultraviolet and deep-ultraviolet frequency conversion. It is valued for its short cut-off wavelength, wide transparency range, relatively high damage threshold, large angular tolerance, and small walk-off angle, making it especially suitable for generating the fourth and fifth harmonics of Nd:YAG lasers and other high-power UV laser applications.

For CLBO crystal (CsLiB6O10), the core stoichiometric raw materials are cesium carbonate (Cs₂CO₃), lithium carbonate (Li₂CO₃), and boron oxide (B₂O₃). In actual crystal-growth practice, especially in TSSG or flux growth, molybdenum trioxide (MoO₃) is also a very important growth flux and process material, but it is not part of the final CLBO stoichiometric composition. Downstream, CLBO mainly enters UV/DUV frequency-conversion modules and then serves deep-UV solid-state lasers, semiconductor inspection, precision micromachining/PCB drilling, spectroscopy, UV LiDAR, and some biomedical or specialized imaging systems.

In 2025, global sales of CLBO Crystal reached approximately 1,082 K Pcs, with an average global market price of around US\$ 2,973/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 50% to 60%.

The CLBO crystal market is fundamentally a small but highly technical niche within deep-UV nonlinear optical materials, rather than a broad-volume optical-material market. Public supplier materials consistently position CLBO as a specialty crystal for UV/DUV

harmonic generation and high-end laser-source chains, indicating a market characterized by high value-add, low volume, and strong application specificity.

The core supplier landscape within the CLBO crystal market is highly concentrated, dominated primarily by a select few specialized optical crystal manufacturers. OXIDE Corporation, SOSHO CHOKO, CASTECH, EKSMA Optics, and Cryslaser are the most active and prominent commercial players in the market.

The outlook for CLBO is broadly positive, but growth is more likely to come from deeper penetration into high-end DUV applications rather than from broad commoditized volume expansion. CLBO's commercial value is tied mainly to continuing upgrades in semiconductor equipment, precision micromachining, and specialized UV systems; therefore, future competition is likely to focus on product quality, application qualification, and customer adoption rather than on mass standardization.

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

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

Highlights and key features of the study

Global CLBO Crystal total production and demand, 2021-2032, (Pcs)

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

Global CLBO Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Pcs), (based on production site)

Global CLBO Crystal consumption by region & country, CAGR, 2021-2032 & (Pcs)

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

Global CLBO Crystal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Pcs)

Global CLBO Crystal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

Global CLBO Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Pcs)

This report profiles key players in the global CLBO 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 OXIDE Corporation, SOSHO CHOKO, CASTECH, EKSMO Optics, Cryslaser, CryLink, 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 CLBO Crystal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Pcs) and average price (US\$/Pc) 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 CLBO Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CLBO Crystal Market, Segmentation by Type:

Coated

Uncoated

Global CLBO Crystal Market, Segmentation by Chemical Modification Status:

Undoped

Doped

Global CLBO Crystal Market, Segmentation by Crystal Growth Route:

Melt-Grown

Top-Seeded Solution Growth (TSSG)

Flux-Grown

Global CLBO Crystal Market, Segmentation by Application:

Semiconductor Equipment

Precision Micromachining

Universities and Research Institutes

Other

Companies Profiled:

OXIDE Corporation

SOSHO CHOKO

CASTECH

EKSMA Optics

Crylaser

CryLink

Key Questions Answered:

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

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