

Global Cs₂LiYCl₆:Ce Crystal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cs₂LiYCl₆:Ce Crystal market size is expected to reach \$ 30.54 million by 2032, rising at a market growth of 10.1% CAGR during the forecast period (2026-2032).

In 2025, global Cs₂LiYCl₆:Ce Crystal production reached approximately 1,265 units, with an average global market price of around US\$12,000 per unit. CLYC (Cs₂LiYCl₆:Ce) is a dual-mode gamma-neutron scintillator and the first practical detector for use as a replacement for both medium resolution gamma-ray detectors and Helium-3 proportional counter tubes for neutron detection.

The global supply of Cs₂LiYCl₆:Ce crystals features regional concentration, with core production capacity distributed across North America, Western Europe and China. Leading market players build competitive barriers through long-term accumulation of crystal growth technologies. Their portfolios cover standard crystal components and customized detector modules, and some suppliers also provide packaging processes and photoelectric coupling solutions to deepen ties with downstream system integrators.

Technical competition focuses on yield improvement of large-size crystal fabrication and pulse shape discrimination optimization. Enterprises channel R&D resources into crystal growth process upgrading and packaging stability enhancement, forming a positive cycle between performance iteration and scenario adaptation to unlock the material's dual-mode detection advantages.

On the demand side, improved global nuclear security governance, nuclear industry operation upgrades and advanced research facility investment jointly drive core growth. The material's combined neutron and gamma detection capability fits multi-scenario radiation monitoring needs, replacing traditional single-function materials, and its

application as a helium-3 neutron detection alternative continues to expand.

Supported by policy guidance and legal guarantees for China's nuclear technology application industry, local players see steady progress in technical maturity and supply capacity. The industry carries high technical and qualification barriers, with new entrants facing thresholds of process accumulation and downstream certification. The competitive landscape remains stable, as leading players consolidate positions through technology iteration and service extension, and regional supply-demand alignment improves with local industrial development.

This report studies the global Cs₂LiYCl₆:Ce Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cs₂LiYCl₆:Ce 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 Cs₂LiYCl₆:Ce Crystal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cs₂LiYCl₆:Ce Crystal total production and demand, 2021-2032, (Units)

Global Cs₂LiYCl₆:Ce Crystal total production value, 2021-2032, (USD Million)

Global Cs₂LiYCl₆:Ce Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Cs₂LiYCl₆:Ce Crystal consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Cs₂LiYCl₆:Ce Crystal domestic production, consumption, key domestic manufacturers and share

Global Cs₂LiYCl₆:Ce Crystal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Cs₂LiYCl₆:Ce Crystal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cs₂LiYCl₆:Ce Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cs₂LiYCl₆:Ce 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 Dynasil (RMD&Hilger), CapeSym, Inc., X-Z LAB, Beijing Glass Research Institute, Kinheng Crystal Material, Yangzhou Bravais Crystal Technology, 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 Cs₂LiYCl₆:Ce Crystal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Cs₂LiYCl₆:Ce Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cs₂LiYCl₆:Ce Crystal Market, Segmentation by Type:

6Li-enriched

7Li-enriched

Natural-lithium

Global Cs₂LiYCl₆:Ce Crystal Market, Segmentation by Size:

?20cm?

>20?120 cm?

>120 cm?

Global Cs₂LiYCl₆:Ce Crystal Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global Cs₂LiYCl₆:Ce Crystal Market, Segmentation by Application:

Industrial Radiation Detection

Medical Radiation Detection

Research

Others

Companies Profiled:

Dynasil (RMD&Hilger)

CapeSym, Inc.

X-Z LAB

Beijing Glass Research Institute

Kinheng Crystal Material

Yangzhou Bravais Crystal Technology

Key Questions Answered:

1. How big is the global Cs₂LiYCl₆:Ce Crystal market?
2. What is the demand of the global Cs₂LiYCl₆:Ce Crystal market?
3. What is the year over year growth of the global Cs₂LiYCl₆:Ce Crystal market?
4. What is the production and production value of the global Cs₂LiYCl₆:Ce Crystal market?
5. Who are the key producers in the global Cs₂LiYCl₆:Ce Crystal market?
6. What are the growth factors driving the market demand?

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