

# Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal market size is expected to reach \$ 4.79 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

In 2025, global sales of Chromium-doped Lithium Strontium Aluminum Fluoride (Cr:LiSAF) Crystal were approximately 2,500 pieces. Based on the standard small- and medium-sized coated finished crystal basis, the global market average price was around USD 1,300 per piece, and the gross margin of major manufacturers was approximately 35%-55%.

Chromium-doped Lithium Strontium Aluminum Fluoride (Cr:LiSAF) Crystal is a tunable solid-state laser gain crystal using LiSrAlF<sub>4</sub> fluoride crystal as the host material and Cr<sup>3+</sup> as the active ion. It is a representative material within the Cr-doped Colquiriite crystal family. The crystal features a broad near-infrared tuning range, good compatibility with diode pumping, a low thermal lensing effect, and strong capability for ultrashort pulse output, and is commonly used to build compact, tunable, and femtosecond solid-state laser systems.

The upstream industry chain mainly includes high-purity lithium fluoride, strontium fluoride, aluminum fluoride, chromium source compounds, crystal growth seed crystals, crucibles, fluoride crystal growth furnaces, annealing equipment, cutting, grinding and polishing materials, coating materials, and optical testing equipment. The midstream covers Cr:LiSAF crystal growth, Cr<sup>3+</sup> doping concentration control, oriented cutting, grinding and polishing, end-face coating, and finished product testing. The downstream mainly serves research and experimental laser, life science and medicine, industrial

measurement, defense optoelectronics, and other fields. Product value is mainly concentrated in fluoride crystal growth quality, doping uniformity, low-loss processing, and broadband coating reliability.

This report studies the global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chromium-doped Lithium Strontium Aluminum Fluoride 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 Chromium-doped Lithium Strontium Aluminum Fluoride Crystal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal total production and demand, 2021-2032, (Units)

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal total production value, 2021-2032, (USD Million)

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Chromium-doped Lithium Strontium Aluminum Fluoride Crystal domestic production, consumption, key domestic manufacturers and share

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Chromium-doped Lithium Strontium Aluminum Fluoride 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 II-VI Optical Systems, Heeger Materials, 4Lasers, Toyokou, Wdq Optics,

Unioriental Optics, CASTECH, Crylink, Fuzhou Tengqi Optoelectronics, 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 Chromium-doped Lithium Strontium Aluminum Fluoride 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 Chromium-doped Lithium Strontium Aluminum Fluoride Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal Market, Segmentation by Type:

0.5–1.0 at.% Low-doped

0.8–1.5 at.% Medium-doped

1.5–3.0 at.% High-doped

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal Market,  
Segmentation by Coating Treatment:

Coated

Uncoated

Global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal Market,  
Segmentation by Application:

Scientific Laser

Medicine

Industrial Measurement

Defense Optoelectronics

Other

Companies Profiled:

II-VI Optical Systems

Heeger Materials

4Lasers

Toyokou

WDQ Optics

Unioriental Optics

CASTECH

Crylink

Fuzhou Tengqi Optoelectronics

#### Key Questions Answered:

1. How big is the global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal market?
2. What is the demand of the global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal market?
3. What is the year over year growth of the global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal market?
4. What is the production and production value of the global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal market?
5. Who are the key producers in the global Chromium-doped Lithium Strontium Aluminum Fluoride Crystal market?
6. What are the growth factors driving the market demand?

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