

Global Ytterbium Doped Potassium Gadolinium Tungstate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ytterbium Doped Potassium Gadolinium Tungstate market size is expected to reach \$ 16.83 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Ytterbium Doped Potassium Gadolinium Tungstate was approximately 8,500 units. Based on standard small- and medium-sized coated finished crystal products, the global average market price was approximately USD 1,100 per unit, and the gross margin of major manufacturers was generally around 35%-55%.

Ytterbium Doped Potassium Gadolinium Tungstate is a solid-state laser gain crystal formed by doping ytterbium ions into a potassium gadolinium tungstate crystal matrix, commonly abbreviated as Yb:KGW. The crystal features a broad emission bandwidth, high absorption cross-section, low quantum defect and good polarized output characteristics, making it suitable for diode-pumped laser systems. It is mainly used in femtosecond and picosecond ultrafast lasers, tunable solid-state lasers, regenerative amplifiers and high peak-power laser systems.

The upstream of the industry chain mainly includes high-purity potassium sources, gadolinium sources, tungsten sources, ytterbium dopant sources, crucibles, fluxes, polishing materials, coating materials and crystal growth equipment. The midstream covers Yb:KGW crystal growth, oriented cutting, precision polishing, coating and testing. The downstream mainly serves research, spectroscopy metrology, medical life science, aerospace, defense military and other fields. The value of this product is mainly concentrated in high-quality crystal growth, low-defect processing, orientation control, coating consistency and adaptability to ultrafast laser systems.

This report studies the global Ytterbium Doped Potassium Gadolinium Tungstate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ytterbium Doped Potassium Gadolinium Tungstate 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 Ytterbium Doped Potassium Gadolinium Tungstate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ytterbium Doped Potassium Gadolinium Tungstate total production and demand, 2021-2032, (Units)

Global Ytterbium Doped Potassium Gadolinium Tungstate total production value, 2021-2032, (USD Million)

Global Ytterbium Doped Potassium Gadolinium Tungstate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ytterbium Doped Potassium Gadolinium Tungstate consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ytterbium Doped Potassium Gadolinium Tungstate domestic production, consumption, key domestic manufacturers and share

Global Ytterbium Doped Potassium Gadolinium Tungstate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ytterbium Doped Potassium Gadolinium Tungstate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ytterbium Doped Potassium Gadolinium Tungstate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ytterbium Doped Potassium Gadolinium Tungstate 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 EKSMO Optics, 4Lasers, Laserand, CASTECH, CRYLINK, HG Optronics, Fuzhou Jingzhi Optoelectronics Technology, Yaoxi 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 Ytterbium Doped Potassium Gadolinium Tungstate 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 Ytterbium Doped Potassium Gadolinium Tungstate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ytterbium Doped Potassium Gadolinium Tungstate Market, Segmentation by Type:

0.5–2 at.% Low Doping

3–5 at.% Medium Doping

5 at.% High Doping

Global Ytterbium Doped Potassium Gadolinium Tungstate Market, Segmentation by Coating Treatment:

Coated

Uncoated

Global Ytterbium Doped Potassium Gadolinium Tungstate Market, Segmentation by Application:

Research

Spectroscopy Metrology

Medical Life Science

Aerospace

Defense Military

Other

Companies Profiled:

EKSMA Optics

4Lasers

Laserand

CASTECH

CRYLINK

HG Optronics

Fuzhou Jingzhi Optoelectronics Technology

Yaoxi Technology

Key Questions Answered:

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

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