

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G95AC1FD672EEN.html>

Date: June 2026

Pages: 101

Price: US\$ 4,480.00 (Single User License)

ID: G95AC1FD672EEN

Abstracts

The global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market size is expected to reach \$ 102 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Radiation-resistant erbium-ytterbium co-doped fiber is a special type of optical fiber designed specifically for high-radiation environments such as space and nuclear energy. It features high radiation resistance, high optical-to-optical conversion efficiency, and long lifetime, making it suitable for space satellite communication amplifiers. This type of fiber effectively suppresses the color center effect caused by high-energy ions, maintaining gain stability before and after irradiation. Radiation resistance is enhanced and radiation-induced loss is reduced by doping with the special elements erbium (Er³⁺) and ytterbium (Yb³⁺). It maintains low loss and stable gain even in high-energy particle environments (gamma rays, neutrons, protons), making it suitable for space communication, optical sensing in nuclear facilities, or military applications.

The upstream sector primarily includes manufacturers of high-purity quartz preforms, Er³⁺ and Yb³⁺ rare-earth doping materials, and optical fiber doping agents. These materials determine the basic performance and radiation resistance of the optical fiber. The midstream sector involves optical fiber drawing and coating, processing preforms into erbium-ytterbium co-doped fibers with specific optical parameters and low radiation sensitivity, while also conducting performance testing and certification—a crucial step in adding value to the product. The downstream sector includes system integrators and end-users in applications such as space communication, nuclear facilities, military, and high-energy physics experiments, who use the fiber in optical amplifiers, optical

sensors, and laser links.

In 2025, global sales of radiation-resistant erbium-ytterbium co-doped optical fibers reached 193,000 meters, with a production capacity of approximately 258,000 meters, an average selling price of US\$350 per meter, and an average gross profit margin of 30%-40%.

Radiation-resistant erbium-ytterbium co-doped optical fiber belongs to a high-tech subcategory of specialty optical fibers, with its global supply exhibiting highly concentrated and monopolistic characteristics. Raw materials, such as high-purity erbium and ytterbium oxides, are mainly sourced from a few suppliers, particularly in regions with abundant rare earth resources like China. Manufacturing requires ultra-clean preform preparation, precise doping control, and complex fiber drawing processes; these capabilities are concentrated in the hands of a small number of European, American, and Japanese companies and specialized optical fiber manufacturers. Due to the high complexity of the production process, the long certification cycle, and the stringent testing requirements for radiation hardening performance, the number of companies capable of providing stable supply in the market is extremely limited. Therefore, industry competition revolves around technical standards and certification capabilities, forming a highly competitive global landscape with significant barriers to entry.

The demand for radiation-resistant optical fiber primarily comes from high-reliability applications such as space communication, nuclear energy infrastructure, particle accelerators, and defense. Its procurement logic differs from that of bulk telecommunications optical fibers, which are driven by cost and price per ton; instead, it focuses on long-term stability, radiation tolerance, and high system-level reliability. Aerospace and satellite communication systems (especially low-Earth orbit/deep space links) place particularly high demands on the radiation blocking performance of fiber optic amplifiers, while optical monitoring and sensing within nuclear power plants also require optical fibers to maintain performance under high-dose radiation. This 'mission-critical demand' drives market growth and often links orders closely to long-term project bids, government budgets, and strategic deployments, resulting in more stable demand but also longer growth cycles.

This report studies the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Radiation-

Resistant Erbium-Ytterbium Co-Doped Fiber 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 Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber total production and demand, 2021-2032, (K Meter)

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber total production value, 2021-2032, (USD Million)

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber domestic production, consumption, key domestic manufacturers and share

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber 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 Exail, Coherent, CorActive, Wuhan CJ Photonics, YOFC Optoelectronics, Wuhan Ruixin, Shanghai Institute of Optics and Fine Mechanics, Fujikura, 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 Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) 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 Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber Market, Segmentation by Type:

Bias Protection

Non-bias Protection

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber Market, Segmentation by Cladding Structure:

Single Cladding

Double Cladding

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber Market, Segmentation by Fiber Core Absorption:

50-60dB/m

60-70dB/m

70-80dB/m

80-90dB/m

Global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber Market, Segmentation by Application:

Satellite Communications

Fiber Lasers

Scientific Research

Others

Companies Profiled:

Exail

Coherent

CorActive

Wuhan CJ Photonics

YOFC Optoelectronics

Wuhan Ruixin

Shanghai Institute of Optics and Fine Mechanics

Fujikura

Key Questions Answered:

1. How big is the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market?
2. What is the demand of the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market?
3. What is the year over year growth of the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market?
4. What is the production and production value of the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market?
5. Who are the key producers in the global Radiation-Resistant Erbium-Ytterbium Co-Doped Fiber market?
6. What are the growth factors driving the market demand?

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