

Global G.652D Optical Fiber Preform Market Growth 2026-2032

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Abstracts

The global G.652D Optical Fiber Preform market size is predicted to grow from US\$ 2502 million in 2025 to US\$ 3707 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

G.652D optical fiber preforms are high-purity quartz glass substrates used to manufacture single-mode optical fibers that comply with the ITU-T G.652.D standard; they serve as a core intermediate material in the fiber production process. Through a fiber-drawing process, these preforms are converted into G.652D single-mode fibers, which are primarily utilized in optical communication sectors such as long-distance communication, data transmission, 5G networks, data center interconnects, and metropolitan area networks. In 2025, the global sales volume of G.652D optical fiber preforms reached 93,000 tons, with a production capacity of approximately 130,000 tons, an average selling price of \$27.5 per kilogram, and an average gross profit margin of 25%–35%.

G.652D optical fiber preforms primarily consist of a high-purity silicon dioxide (SiO_2) glass core and cladding structure, fabricated using processes such as Chemical Vapor Deposition (CVD), Modified Chemical Vapor Deposition (MCVD), Outside Vapor Deposition (OVD), and Vapor Axial Deposition (VAD). Key technical requirements include low fiber attenuation, low dispersion, high mechanical strength, and long-term transmission stability, ensuring the resulting G.652D fibers meet the demands of high-speed communication at the 1310 nm and 1550 nm wavelengths.

The development of manufacturing technology for G.652D optical fiber preforms focuses primarily on enhancing optical performance, reducing manufacturing costs, and improving production efficiency. Current mainstream processes include Modified

Chemical Vapor Deposition (MCVD), Outside Vapor Deposition (OVD), Vapor Axial Deposition (VAD), and Plasma Chemical Vapor Deposition (PCVD). Leading manufacturers typically achieve lower-loss and more consistent fiber products by optimizing deposition efficiency, controlling doping concentrations, and increasing preform dimensions. Driven by the growth of high-speed communications and data center applications, preform technology is evolving toward lower loss, larger sizes, and higher efficiency; simultaneously, some companies are expanding into new product categories—such as G.654 ultra-low-loss fibers and G.657 bend-insensitive fibers—to meet the demands of ultra-high-speed transmission and specialized applications.

Global digitalization efforts are driving sustained investment in optical communication networks across various countries, with 5G deployment, gigabit broadband, data centers, and AI infrastructure serving as key policy-driven catalysts for the rising demand for optical fiber. China continues to advance strategies such as "Digital China" and the "East Data, West Computing" project, accelerating the construction of data centers, computing power networks, and communication infrastructure to support the domestic optical fiber preform industry. Meanwhile, Europe and the United States are expanding optical fiber network coverage through broadband infrastructure investment initiatives. Furthermore, the recent surge in AI data center construction has significantly boosted the demand for high-speed optical interconnects; tight fiber supplies in certain regions have prompted major manufacturers to accelerate capacity expansion and supply chain development. Given the lengthy construction cycles for optical fiber preform production lines and the time required to bring new capacity online, the industry's short-term supply-demand balance remains constrained by the pace of capacity expansion.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "G.652D Optical Fiber Preform Industry Forecast" looks at past sales and reviews total world G.652D Optical Fiber Preform sales in 2025, providing a comprehensive analysis by region and market sector of projected G.652D Optical Fiber Preform sales for 2026 through 2032. With G.652D Optical Fiber Preform sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world G.652D Optical Fiber Preform industry.

This Insight Report provides a comprehensive analysis of the global G.652D Optical Fiber Preform landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity.

This report also analyzes the strategies of leading global companies with a focus on G.652D Optical Fiber Preform portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global G.652D Optical Fiber Preform market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for G.652D Optical Fiber Preform and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global G.652D Optical Fiber Preform.

This report presents a comprehensive overview, market shares, and growth opportunities of G.652D Optical Fiber Preform market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

VAD Process

OVD Process

PCVD Process

MCVD Process

Segmentation by Diameter:

80-120mm

120-150mm

Segmentation by Profile:

Step-Index Profile

Matched-Cladding Profile

Segmentation by Application:

Fiber To The Home (FTTH)

Access Network

Data Center

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sumitomo Electric

Corning

Fujikura

Furukawa Electric

Prysmian Group

OFS Fitel

Shin-Etsu

YOFC

Hengtong

ZTT

Futong Group

FiberHome

Tongding Interconnection

Zhongli Group

Twentsche (Nanjing) Fibre Optics

Key Questions Addressed in this Report

What is the 10-year outlook for the global G.652D Optical Fiber Preform market?

What factors are driving G.652D Optical Fiber Preform market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do G.652D Optical Fiber Preform market opportunities vary by end market size?

How does G.652D Optical Fiber Preform break out by Type, by Application?

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