

Global G.652D Optical Fiber Preform Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global G.652D Optical Fiber Preform market size is expected to reach \$ 3825 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

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 (SiO₂) 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

This report studies the global G.652D Optical Fiber Preform production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for G.652D Optical Fiber Preform 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 G.652D Optical Fiber Preform that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global G.652D Optical Fiber Preform total production and demand, 2021-2032, (Tons)

Global G.652D Optical Fiber Preform total production value, 2021-2032, (USD Million)
Global G.652D Optical Fiber Preform production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global G.652D Optical Fiber Preform consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: G.652D Optical Fiber Preform domestic production, consumption, key domestic manufacturers and share
Global G.652D Optical Fiber Preform production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global G.652D Optical Fiber Preform production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global G.652D Optical Fiber Preform production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global G.652D Optical Fiber Preform 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 Sumitomo Electric, Corning, Fujikura, Furukawa Electric, Prysmian Group, OFS Fitel, Shin-Etsu, YOFC, Hengtong, ZTT, 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 G.652D Optical Fiber Preform market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 G.652D Optical Fiber Preform Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global G.652D Optical Fiber Preform Market, Segmentation by Type:

VAD Process

OVD Process

PCVD Process

MCVD Process

Global G.652D Optical Fiber Preform Market, Segmentation by Diameter:

80-120mm

120-150mm

Global G.652D Optical Fiber Preform Market, Segmentation by Profile:

Step-Index Profile

Matched-Cladding Profile

Global G.652D Optical Fiber Preform Market, Segmentation by Application:

Fiber To The Home (FTTH)

Access Network

Data Center

Others

Companies Profiled:

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 Answered:

1. How big is the global G.652D Optical Fiber Preform market?
2. What is the demand of the global G.652D Optical Fiber Preform market?
3. What is the year over year growth of the global G.652D Optical Fiber Preform market?
4. What is the production and production value of the global G.652D Optical Fiber Preform market?
5. Who are the key producers in the global G.652D Optical Fiber Preform market?
6. What are the growth factors driving the market demand?

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