

Global G.652D Optical Fiber Preform Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G11BE8DDF96AEN.html>

Date: August 2026

Pages: 111

Price: US\$ 3,480.00 (Single User License)

ID: G11BE8DDF96AEN

Abstracts

According to our (Global Info Research) latest study, the global G.652D Optical Fiber Preform market size was valued at US\$ 2632 million in 2025 and is forecast to a readjusted size of US\$ 3825 million by 2032 with a CAGR of 5.5% during review period.

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 is a detailed and comprehensive analysis for global G.652D Optical Fiber Preform market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global G.652D Optical Fiber Preform market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global G.652D Optical Fiber Preform market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global G.652D Optical Fiber Preform market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global G.652D Optical Fiber Preform market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for G.652D Optical Fiber Preform

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global G.652D Optical Fiber Preform market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

G.652D Optical Fiber Preform market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This

analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

VAD Process

OVD Process

PCVD Process

MCVD Process

Market segment by Diameter

80-120mm

120-150mm

Market segment by Profile

Step-Index Profile

Matched-Cladding Profile

Market segment by Application

Fiber To The Home (FTTH)

Access Network

Data Center

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe G.652D Optical Fiber Preform product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of G.652D Optical Fiber Preform, with price, sales quantity, revenue, and global market share of G.652D Optical Fiber Preform from 2021 to 2026.

Chapter 3, the G.652D Optical Fiber Preform competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the G.652D Optical Fiber Preform breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and G.652D Optical Fiber Preform market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of G.652D Optical Fiber Preform.

Chapter 14 and 15, to describe G.652D Optical Fiber Preform sales channel, distributors, customers, research findings and conclusion.

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