

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

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Abstracts

The global G.652 Optical Fiber Preform market size is predicted to grow from US\$ 2821 million in 2025 to US\$ 4789 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

G.652 optical fiber preforms are high-purity glass rods used to manufacture standard single-mode optical fibers. By controlling the refractive index curve and impurity content, they meet the performance requirements of the G.652 standard set by the International Telecommunication Union (ITU). They are widely used in telecommunications backbone networks, metropolitan area networks, and data center interconnection scenarios. Based on industry demand estimates, global sales of G.652 optical fiber preforms are projected to reach approximately 103,000 tons in 2025, with an average unit price of approximately US\$28 per kilogram and a capacity utilization rate of approximately 68%. Upstream companies mainly supply high-purity silica sand, manufacture chemical vapor deposition equipment, and produce glass preforms; downstream companies mainly operate in optical fiber manufacturing, optical communication equipment integration, and network construction and operation. The industry's average gross profit margin is approximately 27%. The product cost structure is mainly composed of high-purity silica sand and chemical raw material costs (approximately 47%), equipment depreciation and maintenance (approximately 18%), energy and labor costs (approximately 20%), transportation and quality inspection (approximately 10%), and management and other expenses (approximately 5%). On the demand side, the downstream demand list includes telecommunications fiber optic network construction, metropolitan area network and access network expansion, data center fiber optic interconnection, intercity long-distance fiber optic cable laying, and optical network integration for intelligent manufacturing and industrial automation. The downstream customer list includes telecommunications operators, network equipment manufacturers, fiber optic cable

manufacturers, large data center operators, government and public infrastructure construction units, and enterprise leased line users. On the business opportunity side, policy drivers are reflected in various countries promoting the digital economy and 5G infrastructure construction, and policies supporting green and low-carbon manufacturing and information infrastructure upgrades. Technological innovation drivers mainly include higher drawing speeds, lower loss preform material formulation optimization, and intelligent manufacturing system applications. Changing consumer demands are reflected in the continued growth in demand for higher bandwidth, lower latency, and more stable network performance. These factors have collectively driven the continuous development and technological progress of the G.652 optical fiber preform industry.

United States market for G.652 Optical Fiber Preform is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for G.652 Optical Fiber Preform is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for G.652 Optical Fiber Preform is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key G.652 Optical Fiber Preform players cover Sumitomo Electric, Corning, Prysmian, Shin-Etsu, Furukawa Electric, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "G.652 Optical Fiber Preform Industry Forecast" looks at past sales and reviews total world G.652 Optical Fiber Preform sales in 2025, providing a comprehensive analysis by region and market sector of projected G.652 Optical Fiber Preform sales for 2026 through 2032. With G.652 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.652 Optical Fiber Preform industry.

This Insight Report provides a comprehensive analysis of the global G.652 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.652 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.652 Optical Fiber Preform market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for G.652 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.652 Optical Fiber Preform.

This report presents a comprehensive overview, market shares, and growth opportunities of G.652 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

Others

Segmentation by Specific Type:

G.652.A Fiber Preform

G.652.B Fiber Preform

G.652.C Fiber Preform

G.652.D Fiber Preform

Segmentation by Profile:

Step-type Profile

Matching Cladding Profile

Segmentation by Application:

Telecom Industry

Power Industry

Petroleum Industry

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

Prysmian

Shin-Etsu

Furukawa Electric

Fujikura

OFS Fitel

Fasten Group

YOFC

Changhe Optical Technology

Hengtong Group

Tongding Interconnection Information

Fiberhome Telecommunication Technologies

Jiangsu Zhongtian Technology

Jiangsu Zhongli Group

Twentsche (Nanjing) Fibre Optics

Key Questions Addressed in this Report

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

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

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

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

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

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