

Global A2 Optical Fiber Preform Market Growth 2026-2032

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Abstracts

The global A2 Optical Fiber Preform market size is predicted to grow from US\$ 1414 million in 2025 to US\$ 10481 million in 2032; it is expected to grow at a CAGR of 21.8% from 2026 to 2032.

A2 Optical Fiber Preform is a high-purity silica glass preform used to draw G.657.A2 bend-insensitive single-mode optical fiber, and it belongs to the upstream key materials of the optical fiber and cable industry chain. Optical fiber preforms determine the refractive index profile, attenuation, bend resistance, drawing yield, and optical consistency of the fiber, making them the primary material that controls fiber performance. The industry generally classifies preforms into categories A, B, and C based on performance and application levels, among which A2 preforms are considered high-end products, mainly used to produce G.657.A2 single-mode fibers with stronger bend resistance, lower bending loss, and suitability for high-density cabling scenarios.

G.657.A2 optical fibers drawn from these preforms are widely applied in AI computing infrastructure, high-density data center cabling, FTTH access networks, building fiber cabling, data center patch panels, and complex small-radius fiber routing scenarios. Compared with conventional G.652.D fibers, G.657.A2 fibers exhibit lower bending loss and stronger installation tolerance in high-density and small-bend-radius environments, leading to rapid growth in demand for AI data centers, computing cluster interconnects, and FTTH upgrades.

In 2025, the global shipment of A2 Optical Fiber Preform is estimated at approximately 8,653.84 tons, with a unit price of \$167,000 per ton and a gross margin of about 42%.

Demand for A2 Optical Fiber Preform is heating up rapidly, essentially driven by a

restructuring of supply and demand in the optical fiber and cable industry. On the demand side, AI data centers, GPU clusters, optical module interconnections, high-density patch cords inside and between cabinets, and FTTH access networks are continuously driving demand for G.657.A2 bend-insensitive single-mode fiber. Compared with traditional communication networks, AI computing infrastructure requires higher fiber density, stronger link reliability, better adaptability to small bending radii, and higher cabling space efficiency. With stronger bend resistance, G.657.A2 fiber is accelerating its expansion from access networks and in-building cabling into AI data centers and high-density computing facilities. According to the data provided, global data center fiber demand is expected to reach 91.60 million fiber-kilometers in 2026, up 32% year on year, and is projected to reach 128.00 million fiber-kilometers by 2030, of which fiber demand from AI applications will exceed 80.00 million fiber-kilometers. This indicates that A2-class optical fiber preforms are no longer merely traditional FTTH materials, but have become one of the important upstream materials for AI computing infrastructure.

On the supply side, optical fiber preform capacity expansion typically requires 18 to 24 months. At the same time, preform manufacturing has high requirements for high-purity silica glass deposition, dopant uniformity, refractive index profile control, and fiber-drawing yield, which limits short-term supply elasticity. Under rapidly rising demand and high utilization constraints, A2-class preform prices have increased from approximately RMB 22 to 30 per equivalent fiber-kilometer in early 2025 to around RMB 160 per equivalent fiber-kilometer in 2026, representing an increase of nearly 550%. This price movement shows that A2-class preforms have shifted from an ordinary preform sub-segment to a scarce high-end material. Companies with A2 preform capacity and stable mass production capabilities are expected to be the main beneficiaries of this market cycle, while small and medium-sized fiber and cable manufacturers without captive preform capacity may face raw material shortages, reliance on toll manufacturing, and compressed profit margins.

From the perspective of competitive landscape, the A2 Optical Fiber Preform market is more favorable to companies with integrated capabilities across preforms, optical fibers, and optical cables. As an upstream material for optical cable products, optical fiber preforms may account for around 70% of the industry's profit distribution. Therefore, under the current cycle driven by AI computing and high-density fiber demand, market competition is no longer focused only on optical fiber and cable shipment capacity, but increasingly on upstream preform capacity, A2 process stability, customer qualification cycles, product yield, and large-scale supply capability.

LP Information, Inc. (LPI) ' newest research report, the "A2 Optical Fiber Preform Industry Forecast" looks at past sales and reviews total world A2 Optical Fiber Preform sales in 2025, providing a comprehensive analysis by region and market sector of projected A2 Optical Fiber Preform sales for 2026 through 2032. With A2 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 A2 Optical Fiber Preform industry.

This Insight Report provides a comprehensive analysis of the global A2 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 A2 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 A2 Optical Fiber Preform market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for A2 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 A2 Optical Fiber Preform.

This report presents a comprehensive overview, market shares, and growth opportunities of A2 Optical Fiber Preform market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

120-150 mm

151-250 mm

300 mm

Segmentation by Manufacturing Process:

OVD

PCVD

Others

Segmentation by Refractive Index Profile:

Step-Index Type

Matched-Cladding Type

Segmentation by Application:

Data Center

UAV

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.

Corning

Sumitomo Electric

Fujikura

Prysmian

Furukawa Electric

Sterlite Technologies Limited

YOFC

Hengtong Group

ZTT Group

Wuhan Fenghuo Ruituo Technology Co., Ltd.

Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd.

Far East Smart Energy

Tongding Interconnection Information Co., Ltd.

Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global A2 Optical Fiber Preform market?

What factors are driving A2 Optical Fiber Preform market growth, globally and by region?

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

How do A2 Optical Fiber Preform market opportunities vary by end market size?

How does A2 Optical Fiber Preform break out by Type, by Application?

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