

Global A2 Optical Fiber Preform Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global A2 Optical Fiber Preform market size is expected to reach \$ 10348 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global A2 Optical Fiber Preform production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for A2 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 A2 Optical Fiber Preform that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global A2 Optical Fiber Preform total production and demand, 2021-2032, (Tons)

Global A2 Optical Fiber Preform total production value, 2021-2032, (USD Million)

Global A2 Optical Fiber Preform production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global A2 Optical Fiber Preform consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: A2 Optical Fiber Preform domestic production, consumption, key domestic manufacturers and share

Global A2 Optical Fiber Preform production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global A2 Optical Fiber Preform production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global A2 Optical Fiber Preform production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global A2 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 Corning, Sumitomo Electric, Fujikura, Prysmian, Furukawa Electric, Sterlite Technologies Limited, YOFC, Hengtong Group, ZTT Group, Wuhan Fenghuo Ruituo Technology Co., Ltd., 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 A2 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\$/Ton) 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 A2 Optical Fiber Preform Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global A2 Optical Fiber Preform Market, Segmentation by Type:

120?150 mm

151?250 mm

300 mm

Global A2 Optical Fiber Preform Market, Segmentation by Manufacturing Process:

OVD

PCVD

Others

Global A2 Optical Fiber Preform Market, Segmentation by Refractive Index Profile:

Step-Index Type

Matched-Cladding Type

Global A2 Optical Fiber Preform Market, Segmentation by Application:

Data Center

UAV

Others

Companies Profiled:

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 Answered:

1. How big is the global A2 Optical Fiber Preform market?
2. What is the demand of the global A2 Optical Fiber Preform market?
3. What is the year over year growth of the global A2 Optical Fiber Preform market?
4. What is the production and production value of the global A2 Optical Fiber Preform market?
5. Who are the key producers in the global A2 Optical Fiber Preform market?
6. What are the growth factors driving the market demand?

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