

Global AIDC Optical Fiber Preforms Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AIDC Optical Fiber Preforms market size was valued at US\$ 628 million in 2025 and is forecast to a readjusted size of US\$ 3488 million by 2032 with a CAGR of 20.5% during review period.

AIDC optical fiber preforms, i.e., optical fiber preforms for AI data centers, are high-purity silica glass rods used to draw optical fibers for AI data centers. Positioned at the upstream of the optical fiber value chain, they determine the final fiber's attenuation, dispersion, geometric consistency, bend-insensitive performance, and batch stability. The typical structure consists of a high-refractive-index core and a low-refractive-index cladding, produced through vapor deposition processes such as OVD, VAD, PCVD, and MCVD, and then drawn in fiber-drawing towers into data center optical fibers including G.657.A2, G.657.A1, G.652.D, G.654.E, and selected OM4 and OM5 fibers. Compared with standard telecom preforms, AIDC preforms emphasize higher purity, low hydroxyl content, low loss, bend-insensitive design, outer diameter consistency, and drawing stability for small-coating-diameter fibers. With the rapid expansion of AI data center Scale-out cluster interconnects, DCI data center interconnects, high-density cabling, and 800G/1.6T optical interconnects, preforms have become a key bottleneck in expanding AIDC fiber supply.

In 2025, global AIDC optical fiber preform shipments reached approximately 3,300 tons, with a unit price of about USD 185,000 per ton and a gross margin of around 40%.

The demand pull from AI data center construction is not only a linear increase in fiber-kilometers, but also a structural upgrade toward high-density and high-performance

fibers. As the upstream core material used to draw data center fibers such as G.657.A2, G.652.D and G.654.E, AIDC optical fiber preforms directly determine attenuation, bend-insensitive performance, geometric consistency and batch stability. As Scale-out cluster interconnect and DCI demand expands, standard fiber capacity cannot fully replace high-performance AIDC fiber capacity. Companies capable of stable high-end preform supply are gaining stronger bargaining power in the value chain.

On the supply side, preform manufacturing is a high-technology, capital-intensive and yield-sensitive segment. OVD, VAD and PCVD processes require advanced equipment, process recipes, deposition efficiency, refractive-index profile control and impurity control, making capacity expansion cycles much longer than downstream fiber drawing and cable processing. Public reports indicate that Chinese optical fiber and cable manufacturers are seeing full orders, with some production schedules extending into 2027, while preforms are identified as an important bottleneck in capacity expansion. Companies such as YOFC, Hengtong, FiberHome and Futong, which have vertically integrated capabilities from preforms to fibers and cables, are better positioned to capture delivery advantages during the AI data center upcycle.

Looking forward, AIDC optical fiber preforms will evolve toward larger size, lower loss, higher uniformity and stronger application-specific design. Preform technologies for G.657.A2 bend-insensitive fiber, G.654.E low-loss large-effective-area fiber, small-coating-diameter fiber, and future hollow-core or multicore fibers will become key areas of competition. The main opportunities come from rapid AI fiber demand growth and price elasticity caused by preform capacity bottlenecks, while the main challenges include long expansion cycles, strict customer qualification, constraints in key equipment and high-purity raw materials, and the impact of technology route changes on preform structure design.

This report is a detailed and comprehensive analysis for global AIDC Optical Fiber Preforms 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 AIDC Optical Fiber Preforms market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AIDC Optical Fiber Preforms market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AIDC Optical Fiber Preforms market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AIDC Optical Fiber Preforms market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 AIDC Optical Fiber Preforms

- 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 AIDC Optical Fiber Preforms 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 Corning, Sumitomo Electric, Fujikura, Prysmian, Furukawa Electric, Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.), 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.

Market Segmentation

AIDC Optical Fiber Preforms 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

OVD

PCVD

VAD

Others

Market segment by Fiber Optic Technology

G.657.A1

G.657.A2

G.652.D

Other(G.654.E,hollow-core fiber,etc.)

Market segment by Coating Diameter

250 ?m

200 ?m

180 ?m

Others

Market segment by Application

Scale-Up Interconnect

Scale-Out Interconnect

Data Center Interconnect

Others

Major players covered

Corning

Sumitomo Electric

Fujikura

Prysmian

Furukawa Electric

Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.)

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 Etern Optical Fiber Technology Co., Ltd

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AIDC Optical Fiber Preforms product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AIDC Optical Fiber Preforms 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 AIDC Optical Fiber Preforms 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 AIDC Optical Fiber Preforms.

Chapter 14 and 15, to describe AIDC Optical Fiber Preforms sales channel, distributors, customers, research findings and conclusion.

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