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Global Double-Clad Photonic Crystal Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Double-Clad Photonic Crystal Fiber market size is expected to reach $ 26.31 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Double-clad photonic crystal fiber (DC-PCF) is a specialized type of optical fiber featuring a photonic crystal microstructure cladding design and a dual-layer cladding structure (comprising an inner and an outer cladding). It achieves optical field confinement through a photonic crystal structure formed by an array of air holes, while utilizing the double-clad design to facilitate efficient pump light coupling and laser signal transmission.

The upstream segment of the industry chain primarily includes high-purity quartz glass preforms, rare-earth dopants (such as ytterbium, erbium, and thulium), high-purity chemical raw materials, precision fiber drawing equipment, fiber coating materials, and equipment for manufacturing microstructured preforms; among these, photonic crystal microstructure design and preform fabrication are critical factors determining product performance. The midstream segment involves the R&D and manufacturing of DC-PCFs, utilizing processes such as microstructured preform processing, fiber drawing, double-clad structure design, rare-earth doping, and high-precision coating to produce fibers for high-power laser and fiber amplification applications. The downstream segment primarily encompasses applications in laser transmission, fiber-optic sensing, and optical communications.

In 2025, the global sales volume of double-clad photonic crystal fibers is projected to reach 33,730 meters, with a production capacity of approximately 48,100 meters; the average selling price is estimated at $489 per meter, and the average gross profit

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margin ranges from 35% to 45%.

Double-clad photonic crystal fibers are primarily used in high-power fiber lasers and fiber amplifiers?representing the largest segment of market demand?and serve a wide range of industrial sectors, including laser cutting, laser welding, additive manufacturing (3D printing), and precision micromachining. Meanwhile, the advancement of aerospace, defense equipment, LiDAR, ultrafast laser technology, and scientific instrumentation has driven a continuous rise in the demand for high power, superior beam quality, and low-nonlinearity transmission performance, serving as the primary engine for market growth.

This report studies the global Double-Clad Photonic Crystal Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Double-Clad Photonic Crystal Fiber 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 Double-Clad Photonic Crystal Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Double-Clad Photonic Crystal Fiber total production and demand, 2021-2032, (Meters)
Global Double-Clad Photonic Crystal Fiber total production value, 2021-2032, (USD Million)
Global Double-Clad Photonic Crystal Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Meters), (based on production site)
Global Double-Clad Photonic Crystal Fiber consumption by region & country, CAGR, 2021-2032 & (Meters)
U.S. VS China: Double-Clad Photonic Crystal Fiber domestic production, consumption, key domestic manufacturers and share
Global Double-Clad Photonic Crystal Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Meters)
Global Double-Clad Photonic Crystal Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Meters)
Global Double-Clad Photonic Crystal Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Meters)

This report profiles key players in the global Double-Clad Photonic Crystal Fiber market

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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 NKT Photonics, GLOphotonics, YOFC, YSL Photonics, Yangtze Optical Electronic, FORC-Photonics, fiberware GmbH, 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 Double-Clad Photonic Crystal Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Meters) and average price (US$/Meter) 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 Double-Clad Photonic Crystal Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Double-Clad Photonic Crystal Fiber Market, Segmentation by Type:

Active-Doped Type

Passive Type

Global Double-Clad Photonic Crystal Fiber Market, Segmentation by Light-Guiding Mechanism:

Total Internal Reflection Type

Photonic Bandgap Type

Global Double-Clad Photonic Crystal Fiber Market, Segmentation by Core Diameter:

20?30 ?m

30?50 ?m

Global Double-Clad Photonic Crystal Fiber Market, Segmentation by Application:

Laser Transmission

Fiber-Optic Sensing

Optical Communication

Others

Companies Profiled:

NKT Photonics

GLOphotonics

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YOFC

YSL Photonics

Yangtze Optical Electronic

FORC-Photonics

fiberware GmbH

Key Questions Answered:
1. How big is the global Double-Clad Photonic Crystal Fiber market?
2. What is the demand of the global Double-Clad Photonic Crystal Fiber market?
3. What is the year over year growth of the global Double-Clad Photonic Crystal Fiber market?
4. What is the production and production value of the global Double-Clad Photonic Crystal Fiber market?
5. Who are the key producers in the global Double-Clad Photonic Crystal Fiber market?
6. What are the growth factors driving the market demand?

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