

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market size is expected to reach \$ 190 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms is a high-purity silicon chloride used in the manufacture of optical fiber preforms and high-purity quartz glass. Its chemical formula is SiCl₄. At room temperature, it is a colorless, volatile liquid that hydrolyzes in water to produce hydrogen chloride. Its main application is as a silica deposition raw material in the manufacturing process of optical fiber preforms. In processes such as MCVD, OVD, VAD, and PCVD, it forms high-purity silica glass through flame hydrolysis or chemical vapor deposition, which is used to construct the core layer, cladding, or quartz matrix of optical fiber preforms.

Compared to industrial-grade silicon tetrachloride, High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms requires higher total purity (typically 6N-9N or higher), and strict control over metallic impurities, hydroxyl groups, moisture, particulate contamination, and packaging cleanliness. Its strategic value lies in ensuring the deposition efficiency, glass purity, low-loss fiber performance, and customer certification stability of optical fiber preforms. It is a key chemical raw material for the manufacture of high-performance communication optical fibers and low-water-peak, multimode, and specialty optical fibers. Global shipments of High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms are projected to reach approximately 105,000 tons in 2025, with a unit price of approximately US\$820 per ton and a gross profit margin of approximately 27%.

High-purity silicon tetrachloride (SiCl_4) is one of the most widely used high-purity chemical raw materials in optical fiber preform manufacturing. Silicon tetrachloride plays a crucial role in the deposition of high-purity silica glass, fundamentally influencing preform size, deposition efficiency, glass purity, and fiber attenuation. With the continuous demand for high-performance optical fibers driven by AI data centers, computing networks, submarine cables, 400G/800G/1.6T optical module interconnection, and low-loss long-distance transmission, preform manufacturers are simultaneously increasing their requirements for the quantity, purity, batch stability, and process compatibility of high-purity SiCl_4 .

The core change on the supply side is the simultaneous occurrence of domestic production and high-end technology. Previously, high-purity silicon tetrachloride was dominated by companies in Germany and Japan. In recent years, domestic companies such as Sanfu Chemical, Wuhan Xinsilicon, and Luoyang Zhonggui have successively achieved the supply of high-purity silicon tetrachloride that meets the requirements for optical fiber preforms and synthetic quartz. According to publicly available information from Sanfu Chemical, its products have achieved large-scale supply of PCVD core rods, reaching a purity of 9N and achieving import substitution. Wuhan Xinsilicon disclosed that it can provide 4N-11N high-purity silicon tetrachloride, which is used in optical fiber preforms, synthetic quartz, semiconductor silicon epitaxy, and silicon carbide.

Market risks mainly come from two aspects. First, downstream preform manufacturers typically use long-term contracts, certification, and process-bound procurement, resulting in long supplier switching cycles. However, if customer capacity expansion slows down, supplier utilization and price elasticity will also be under pressure. Second, although 9N-grade, PCVD-grade, and special optical fiber products have higher gross margins, they have stricter requirements for hydrogen impurities, metal ions, particles, moisture, and infrared transmittance. Companies need to continuously invest in distillation, photochlorination, ultra-clean filling, and analytical testing systems. Overall, companies with high-purity purification capabilities, stable batch supply records, preform customer certification, and electronic-grade extension capabilities will have stronger competitiveness in the future market.

This report studies the global High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms total production and demand, 2021-2032, (Kilotons)

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms total production value, 2021-2032, (USD Million)

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms domestic production, consumption, key domestic manufacturers and share

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms 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 Evonik, Tokuyama, Wuhan New Silicon Technology Qianjiang Co., Ltd., Hubei Feiling Optical Fiber Materials Co., Ltd., Hubei Jingrui Electronic Materials Co., Ltd., Luoyang Zhonggui High-Tech Co., Ltd., Hubei Heyuan Gas Co., Ltd., Hubei Jiangnan New Materials Co., Ltd., Jiangxi Hungpai New Material Co., Ltd., Zhejiang Yage Xin'an Electronic New Materials 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber

Preforms market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms Market, Segmentation by Type:

6N Grade

9N Grade

11N Grade

Others

Global High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms Market,
Segmentation by Preform Process:

OVD Grade

VAD Grade

PCVD Grade

Global High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms Market,
Segmentation by Manufacturing Route:

Synthetic Route

Recovery Route

Global High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms Market,
Segmentation by Application:

Single Mode Fiber

Multimode Fiber

Specialty Fiber

Companies Profiled:

Evonik

Tokuyama

Wuhan New Silicon Technology Qianjiang Co., Ltd.

Hubei Feiling Optical Fiber Materials Co., Ltd.

Hubei Jingrui Electronic Materials Co., Ltd.

Luoyang Zhonggui High-Tech Co., Ltd.

Hubei Heyuan Gas Co., Ltd.

Hubei Jiangnan New Materials Co., Ltd.

Jiangxi Hungpai New Material Co., Ltd.

Zhejiang Yage Xin'an Electronic New Materials Co., Ltd.

Tangshan Sunfar Silicon Industries Co., Ltd.

Jiangdong Xiangjun Materials Co., Ltd.

Key Questions Answered:

1. How big is the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market?
2. What is the demand of the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market?
3. What is the year over year growth of the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market?
4. What is the production and production value of the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market?
5. Who are the key producers in the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market?
6. What are the growth factors driving the market demand?

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