

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms Market Growth 2026-2032

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Abstracts

The global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market size is predicted to grow from US\$ 84.23 million in 2025 to US\$ 186 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 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 (SiCl₄) 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.

LP Information, Inc. (LPI)'s newest research report, the "High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms Industry Forecast" looks at past sales and reviews total world High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms sales in 2025, providing a comprehensive analysis by region and market sector of projected High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms sales for 2026 through 2032. With High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms sales broken down by region, market sector and sub-sector, this report

provides a detailed analysis in US\$ millions of the world High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms industry.

This Insight Report provides a comprehensive analysis of the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms.

This report presents a comprehensive overview, market shares, and growth opportunities of High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

6N Grade

9N Grade

11N Grade

Others

Segmentation by Preform Process:

OVD Grade

VAD Grade

PCVD Grade

Segmentation by Manufacturing Route:

Synthetic Route

Recovery Route

Segmentation by Application:

Single Mode Fiber

Multimode Fiber

Specialty Fiber

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.

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 Addressed in this Report

What is the 10-year outlook for the global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market?

What factors are driving High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market growth, globally and by region?

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

How do High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market opportunities vary by end market size?

How does High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms break out by Type, by Application?

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