

Global High-Purity Silicon Tetrachloride (SiCl₄) for 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market size was valued at US\$ 88.59 million in 2025 and is forecast to a readjusted size of US\$ 190 million by 2032 with a CAGR of 8.0% during review period.

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 is a detailed and comprehensive analysis for global High-Purity Silicon Tetrachloride (SiCl_4) for 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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 High-Purity Silicon Tetrachloride (SiCl₄) for 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 High-Purity Silicon Tetrachloride (SiCl₄) for 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 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.

Market Segmentation

High-Purity Silicon Tetrachloride (SiCl₄) for 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

6N Grade

9N Grade

11N Grade

Others

Market segment by Preform Process

OVD Grade

VAD Grade

PCVD Grade

Market segment by Manufacturing Route

Synthetic Route

Recovery Route

Market segment by Application

Single Mode Fiber

Multimode Fiber

Specialty Fiber

Major players covered

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.

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 High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms, with price, sales quantity, revenue, and global market share of High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms from 2021 to 2026.

Chapter 3, the High-Purity Silicon Tetrachloride (SiCl₄) for Optical Fiber Preforms competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Purity Silicon Tetrachloride (SiCl₄) for 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 High-Purity Silicon Tetrachloride (SiCl₄) for

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 High-Purity Silicon Tetrachloride (SiCl_4) for Optical Fiber Preforms.

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