

Global Low-OH Synthetic Fused Silica Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-OH Synthetic Fused Silica market size is expected to reach \$ 523 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Low-OH Synthetic Fused Silica was approximately 2,500 tons, with an average global market price of about USD 140/kg. The gross margin of major manufacturers in the industry was approximately 40%-55%.

Low-OH Synthetic Fused Silica is a type of low-hydroxyl or anhydrous synthetic quartz glass material mainly composed of high-purity silicon dioxide. It is typically produced from high-purity silicon tetrachloride and other silicon sources through gas-phase deposition-dehydroxylation vitrification, flame hydrolysis-dehydroxylation melting, and other processes. Its core feature is the low Si-OH content in the quartz glass structure, which helps reduce hydroxyl absorption in the near-infrared and mid-infrared bands. The material also features high purity, low impurity content, good thermal stability, high transmittance, and excellent optical homogeneity. Compared with hydrous/high-OH synthetic quartz material, Low-OH Synthetic Fused Silica is more suitable for semiconductors, optoelectronics, aerospace, medical, and other high-end optical applications that require infrared transmittance, high-temperature stability, and low water content.

Its upstream mainly includes high-purity silicon tetrachloride, high-purity oxygen, hydrogen, chlorine or other dehydroxylation process gases, high-purity gas supply systems, deposition furnaces, melting furnaces, sintering furnaces, annealing furnaces, and optical inspection equipment. The midstream consists of synthetic quartz material manufacturers that conduct high-purity silicon source conversion, gas-phase deposition,

dehydroxylation treatment, sintering vitrification, melting and forming, annealing, cutting, grinding, polishing, and inspection to produce quartz ingots, plates, tubes, rods, substrates, and optical blanks. Downstream applications mainly include semiconductors, optoelectronics, aerospace, medical, and other fields.

This report studies the global Low-OH Synthetic Fused Silica production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-OH Synthetic Fused Silica 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 Low-OH Synthetic Fused Silica that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-OH Synthetic Fused Silica total production and demand, 2021-2032, (Tons)

Global Low-OH Synthetic Fused Silica total production value, 2021-2032, (USD Million)

Global Low-OH Synthetic Fused Silica production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Low-OH Synthetic Fused Silica consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Low-OH Synthetic Fused Silica domestic production, consumption, key domestic manufacturers and share

Global Low-OH Synthetic Fused Silica production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Low-OH Synthetic Fused Silica production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Low-OH Synthetic Fused Silica production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Low-OH Synthetic Fused Silica 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 Corning, AGC, Ohara Quartz, Tosoh SGM, Shin-Etsu Chemical, Heraeus Covantics, Momentive Technologies, WEINERT Industries, Feilihua, YOFC Quartz Technology, 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 Low-OH Synthetic Fused Silica market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Low-OH Synthetic Fused Silica Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-OH Synthetic Fused Silica Market, Segmentation by Type:

Ultra-Low-OH Type

Low-OH Type

Medium-Low-OH Type

Global Low-OH Synthetic Fused Silica Market, Segmentation by Production Process:

Gas-Phase Deposition-Dehydroxylation Vitrification Type

Flame Hydrolysis-Dehydroxylation Melting Type

Global Low-OH Synthetic Fused Silica Market, Segmentation by Application:

Semiconductor

Optoelectronic

Aerospace

Medical

Other

Companies Profiled:

Corning

AGC

Ohara Quartz

Tosoh SGM

Shin-Etsu Chemical

Heraeus Covantics

Momentive Technologies

WEINERT Industries

Feilihua

YOFC Quartz Technology

Quickgem

Key Questions Answered:

1. How big is the global Low-OH Synthetic Fused Silica market?
2. What is the demand of the global Low-OH Synthetic Fused Silica market?
3. What is the year over year growth of the global Low-OH Synthetic Fused Silica market?
4. What is the production and production value of the global Low-OH Synthetic Fused Silica market?
5. Who are the key producers in the global Low-OH Synthetic Fused Silica market?
6. What are the growth factors driving the market demand?

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