

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0655EE516ADEN.html>

Date: August 2026

Pages: 100

Price: US\$ 4,480.00 (Single User License)

ID: G0655EE516ADEN

Abstracts

The global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market size is expected to reach \$ 158 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Waveguide-grade quartz glass tubes for optical fiber are high-purity fused silica tubes used in the manufacture of optical fiber preforms. They are mainly used as substrate tubes, jacketing tubes, or fluorine-doped cladding tubes in MCVD, PCVD, and other processes. These products require low impurity levels, low bubble content, low hydroxyl content, excellent geometric accuracy, and superior surface quality to ensure low optical fiber transmission loss, stable refractive index, and high drawing yield.

The upstream supply chain includes high-purity quartz sand, silicon tetrachloride, oxyhydrogen flame or plasma melting equipment, precision forming equipment, testing instruments, and clean processing consumables. Downstream applications mainly include communication optical fiber, specialty optical fiber, fiber optic sensing, laser transmission, data centers, and 5G/backbone network construction.

In the global market for waveguide-grade quartz glass tubes used in optical fiber, the average unit price is USD 60,000?80,000 per ton, annual sales volume is about 1,820 tons, global annual production capacity is about 2,500?3,500 units, and the industry profit margin is around 30%.

In the future, the global market will be driven by demand from AI data centers, 5G-A/6G, submarine cables, industrial lasers, and fiber optic sensing. The importance of high-purity, large-size, and low-defect quartz glass tubes will continue to increase. The

industry will upgrade toward synthetic quartz replacing natural quartz, fluorine-doped refractive index control, low OH content, precise geometric tolerances, and highly consistent mass supply. European, American, and Japanese companies will continue to hold advantages in high-end synthetic quartz, specialty optical fiber materials, and quality control, while Chinese companies will accelerate capacity expansion based on the optical fiber and cable supply chain and domestic substitution demand. Future competition will shift from capacity expansion to purity, stability, low loss, and long-term supply capability.

This report studies the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers total production and demand, 2021-2032, (Tons)

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers total production value, 2021-2032, (USD Million)

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Waveguide-Grade Quartz Glass Tubes For Optical Fibers domestic production, consumption, key domestic manufacturers and share

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 Heraeus Covantics, Shin-Etsu Quartz Products, Tosoh Quartz, Momentive Technologies, QSIL, Raesch Quarz, Jiangsu Pacific Quartz, Hubei Feilihua Quartz Glass, Quick Gem Optoelectronic, 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers Market, Segmentation by Type:

Substrate Tube

Cladding Tube

Jacketing Tube

Overcladding Tube

Fluorine-doped Tube

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers Market, Segmentation by Fiber Preform Process:

MCVD Quartz Glass Tube

PCVD Quartz Glass Tube

OVD Quartz Glass Tube

VAD Quartz Glass Tube

Rod-in-tube Quartz Glass Tube

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers Market, Segmentation by Material Type:

Natural Fused Quartz Tube

Synthetic Fused Silica Tube

High-purity Quartz Glass Tube

Ultra-high-purity Quartz Glass Tube

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers Market, Segmentation by Application:

Communication Optical Fiber

Special Optical Fiber

Multimode Fiber

Single-mode Fiber

Fiber Sensor

Laser Fiber

Companies Profiled:

Heraeus Covantics

Shin-Etsu Quartz Products

Tosoh Quartz

Momentive Technologies

QSIL

Raesch Quarz

Jiangsu Pacific Quartz

Hubei Feilihua Quartz Glass

Quick Gem Optoelectronic

YOFC Quartz Technology

Key Questions Answered:

1. How big is the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market?
2. What is the demand of the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market?
3. What is the year over year growth of the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market?
4. What is the production and production value of the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market?
5. Who are the key producers in the global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market?
6. What are the growth factors driving the market demand?

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