

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers market size was valued at US\$ 112 million in 2025 and is forecast to a readjusted size of US\$ 158 million by 2032 with a CAGR of 4.9% during review period.

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 is a detailed and comprehensive analysis for global Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Waveguide-Grade Quartz Glass Tubes For Optical Fibers market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers

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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 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.

Market Segmentation

Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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

Substrate Tube

Cladding Tube

Jacketing Tube

Overcladding Tube

Fluorine-doped Tube

Market segment 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

Market segment by Material Type

Natural Fused Quartz Tube

Synthetic Fused Silica Tube

High-purity Quartz Glass Tube

Ultra-high-purity Quartz Glass Tube

Market segment by Application

Communication Optical Fiber

Special Optical Fiber

Multimode Fiber

Single-mode Fiber

Fiber Sensor

Laser Fiber

Major players covered

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

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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Waveguide-Grade Quartz Glass Tubes For Optical Fibers, with price, sales quantity, revenue, and global market share of Waveguide-Grade Quartz Glass Tubes For Optical Fibers from 2021 to 2026.

Chapter 3, the Waveguide-Grade Quartz Glass Tubes For Optical Fibers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers 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 Waveguide-Grade Quartz Glass Tubes For Optical Fibers.

Chapter 14 and 15, to describe Waveguide-Grade Quartz Glass Tubes For Optical Fibers sales channel, distributors, customers, research findings and conclusion.

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