

Global Quartz Used in Semiconductor Components Market Growth 2026-2032

<https://marketpublishers.com/r/G890684CDC10EN.html>

Date: October 2026

Pages: 104

Price: US\$ 3,660.00 (Single User License)

ID: G890684CDC10EN

Abstracts

The global Quartz Used in Semiconductor Components market size is predicted to grow from US\$ 600 million in 2025 to US\$ 971 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

Quartz Used in Semiconductor Components scope mainly includes quartz tubes, quartz rods, quartz ingots, quartz plates, quartz blocks, quartz cylinders/hollows, quartz discs and other semi-finished quartz geometries. These materials are subsequently cut, ground, machined, welded, polished or otherwise fabricated into process tubes, boats, wafer carriers, pedestals, liners, rings, injectors, windows, shower plates and other semiconductor quartz components.

The materials are predominantly high-purity SiO₂ and can be produced from either high-purity natural quartz raw material or synthetic silica precursors. Semiconductor-grade quartz requires very low concentrations of metallic and alkali impurities, low bubble and inclusion levels, high material homogeneity, high thermal stability, low thermal expansion, good chemical resistance and tight dimensional tolerances.

Market Drivers

1. The primary driver is the continued expansion of global semiconductor wafer-fabrication capacity and semiconductor equipment installations. Semiconductor manufacturing involves numerous high-temperature, vacuum, plasma and chemically aggressive processes, including diffusion, oxidation, CVD, ALD, annealing and etching. Quartz base materials are indispensable feedstock for producing furnace tubes, wafer carriers, boats, pedestals, process liners and other components used in these tools. Heraeus specifically identifies quartz tubes for CVD, diffusion and annealing equipment,

while quartz ingots and plates are used for both batch and single-wafer processing systems. As semiconductor fabs continue adding 300-mm capacity, demand for large-diameter and tightly controlled quartz tubes, ingots and plates also increases.

2. A second major growth driver is the transition toward advanced semiconductor nodes and increasingly stringent contamination control. Advanced logic, DRAM and 3D NAND production involves a growing number of deposition and etching steps, while shrinking device dimensions make the manufacturing process increasingly sensitive to trace metallic contamination, particles and alkali impurities. This raises demand for ultra-high-purity natural fused quartz and, particularly at the high end, synthetic fused silica with ppb-class impurity levels. For example, Heraeus supplies synthetic semiconductor quartz characterized by ppb-class purity and zero-bubble material, while Momentive's 021 grade synthetic quartz reaches purity above 99.9999% SiO₂ for ultra-high-purity semiconductor applications.

3. A third driver is the combination of higher process temperatures, larger wafer sizes, longer process cycles and more demanding plasma environments. These trends raise requirements for quartz materials with better dimensional stability, lower sagging, improved thermal endurance and consistent surface quality. At the same time, semiconductor equipment OEMs are demanding larger-diameter tubes, larger ingots and more precisely controlled plates and rods. Quartz rods, for example, are extensively used to fabricate wafer boats, carriers and pedestals, while plates are converted into windows, gas-distribution plates, shower plates, susceptors and wafer carriers. This trend increases both the technical value and average selling price of high-end semiconductor-grade quartz materials.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Quartz Used in Semiconductor Components Industry Forecast" looks at past sales and reviews total world Quartz Used in Semiconductor Components sales in 2025, providing a comprehensive analysis by region and market sector of projected Quartz Used in Semiconductor Components sales for 2026 through 2032. With Quartz Used in Semiconductor Components sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Quartz Used in Semiconductor Components industry.

This Insight Report provides a comprehensive analysis of the global Quartz Used in Semiconductor Components 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 Quartz Used in Semiconductor Components portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quartz Used in Semiconductor Components market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quartz Used in Semiconductor Components 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 Quartz Used in Semiconductor Components.

This report presents a comprehensive overview, market shares, and growth opportunities of Quartz Used in Semiconductor Components market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Semiconductor Quartz Tubes

Semiconductor Quartz Ingots

Semiconductor Quartz Rods

Others (e.g., Quartz Plates)

Segmentation by Raw Material:

Natural/Fused Quartz

Synthetic Quartz

Segmentation by Transparency:

Transparent Quartz

Opaque Quartz

Segmentation by Application:

For Semiconductor Components in High-temperature Zones

For Semiconductor Components in Low-temperature Zones

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.

Heraeus Covantics

Pacific Quartz

CoorsTek

Feilihua

Tosoh

AURA

Momentive Technologies

QSIL

Raesch

Ohara

Key Questions Addressed in this Report

What is the 10-year outlook for the global Quartz Used in Semiconductor Components market?

What factors are driving Quartz Used in Semiconductor Components market growth, globally and by region?

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

How do Quartz Used in Semiconductor Components market opportunities vary by end market size?

How does Quartz Used in Semiconductor Components break out by Type, by Application?

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