

# Global Gas-Fused Opaque Quartz Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Gas-Fused Opaque Quartz market size is expected to reach \$ 256 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of fused opaque quartz is projected to reach 326,100 tons, with an average selling price of \$527 per ton. The global annual production capacity for fused opaque quartz stands at approximately 500,000 tons, accompanied by a gross margin of approximately 23.5%. Fused opaque quartz refers to quartz material that has undergone processing or modification via a gas-phase method, endowing it with opaque or highly absorptive characteristics within the visible to near-infrared spectral range. Consequently, in optical applications, the light transmission through its opaque regions is extremely low—approaching near-total blockage. In contrast to traditional transparent quartz, fused opaque quartz—when subjected to specific processing techniques—exhibits surface or bulk darkening, discoloration, or enhanced light absorption. The upstream segment of the fused opaque quartz industry comprises raw materials and equipment such as high-purity quartz sand, graphite crucibles, and fusion furnaces. The midstream segment consists of the manufacturers of fused opaque quartz, while the downstream segment primarily serves applications within industries such as semiconductors and photovoltaics.

Globally, the market is dominated by a handful of international enterprises—such as Germany's Heraeus and Japan's Tosoh—which leverage their technological advantages and brand influence to secure market share in the high-end segment, particularly in sectors with exceptionally stringent material performance requirements, such as semiconductors and aerospace. Domestically, driven by the rapid expansion of industries like semiconductors and photovoltaics, demand for gas-fused opaque quartz continues to rise; however, the overall technological proficiency and production capacity

of domestic enterprises still lag behind international advanced standards, and a widespread reliance on imports for high-end products remains a common phenomenon. In recent years, through dedicated technological breakthroughs and increased R&D investment, certain domestic firms have made gradual strides in areas such as gas-fused opaque quartz preparation processes and product performance enhancement. These companies have begun to integrate into the supply chains of the domestic semiconductor industry; nevertheless, their overall market share and competitiveness still require further improvement. In summary, the market for gas-fused opaque quartz is currently in a phase of rapid development. Fueled by demand from downstream industries, the market holds broad prospects; however, technological barriers, the stability of raw material supplies, and the ongoing process of domestic substitution remain key challenges confronting the industry.

This report studies the global Gas-Fused Opaque Quartz production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gas-Fused Opaque Quartz 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 Gas-Fused Opaque Quartz that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gas-Fused Opaque Quartz total production and demand, 2021-2032, (Kilotons)

Global Gas-Fused Opaque Quartz total production value, 2021-2032, (USD Million)

Global Gas-Fused Opaque Quartz production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Gas-Fused Opaque Quartz consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Gas-Fused Opaque Quartz domestic production, consumption, key domestic manufacturers and share

Global Gas-Fused Opaque Quartz production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Gas-Fused Opaque Quartz production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Gas-Fused Opaque Quartz production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Gas-Fused Opaque Quartz 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, Tosoh, Momentive Technologies, STEREOON Materials(QSIL), Sinoptix, Ohara, Shin-Etsu, Osram, Krystal Technology, Feilihua, 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 Gas-Fused Opaque Quartz market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Gas-Fused Opaque Quartz Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gas-Fused Opaque Quartz Market, Segmentation by Type:

Natural Opaque Quartz

Synthetic/High-Purity Opaque Quartz

Global Gas-Fused Opaque Quartz Market, Segmentation by Optical Properties:

Low Transmittance (

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