

Global Gas-Fused Opaque Quartz 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 Gas-Fused Opaque Quartz market size was valued at US\$ 177 million in 2025 and is forecast to a readjusted size of US\$ 256 million by 2032 with a CAGR of 5.1% during review period.

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 is a detailed and comprehensive analysis for global Gas-Fused Opaque Quartz 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 Gas-Fused Opaque Quartz market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Gas-Fused Opaque Quartz market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Gas-Fused Opaque Quartz market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Gas-Fused Opaque Quartz market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Gas-Fused Opaque Quartz

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 Gas-Fused Opaque Quartz 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, 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.

Market Segmentation

Gas-Fused Opaque Quartz 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

Natural Opaque Quartz

Synthetic/High-Purity Opaque Quartz

Market segment by Optical Properties

Low Transmittance (

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