

Silica Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Glass Manufacturing, Foundry, Oil & Gas, Fillers & Building Product, Ceramics, Chemicals, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Silica Market was valued at USD 124,116.30 million in 2024 and is projected to reach USD 186,219.87 million by 2030, growing at a CAGR of 5.52% during the forecast period. Silica, primarily silicon dioxide (SiO₂), is used in various forms such as quartz, fused silica, silica gel, and precipitated silica, and plays a critical role across diverse sectors including construction, automotive, electronics, coatings, personal care, and oil & gas. Its widespread application in concrete, cement, and glass manufacturing is fueling demand, especially in emerging economies with rising infrastructure development. However, the market faces challenges linked to environmental and occupational health regulations surrounding crystalline silica dust, which necessitate investment in protective technologies. Moreover, fluctuations in the availability and cost of raw materials such as silica sand and quartz can impact operational stability and pricing across the supply chain.

Key Market Drivers

Growing Demand of Silica in Glass Industry

The expanding use of silica in the glass industry is a significant contributor to global market growth. Silica, in its pure form, is the primary component in glass manufacturing due to its properties that enable strength, clarity, and thermal stability. With global glass production, especially bottles and containers, reaching approximately 830 billion units in 2024, demand for high-quality silica has intensified. Silica sand, which must exceed 95% purity, is essential for producing flat, container, and specialty glass products. The ongoing growth of the construction and automotive sectors is fueling this demand, as both rely on glass for windows, facades, and windshields. Additionally, the rise of electric vehicles and energy-efficient buildings is amplifying the need for advanced glazing solutions, further driving silica consumption in the glass segment.

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Key Market Challenges

Volatility in Availability of Raw Material

A key challenge confronting the global silica market is the inconsistent availability of raw materials, particularly high-purity quartz and silica sand. These raw inputs are critical to silica production, and disruptions in supply can impact manufacturing processes and cost-efficiency. The issue is exacerbated by the uneven geographical distribution of silica resources, with some regions heavily restricted by land-use regulations, environmental protections, and public opposition to quarrying. Even in areas where mining is permitted, operations face seasonal limitations, logistical hurdles, and evolving policy landscapes. This unpredictability complicates long-term planning for producers and can cause price volatility in both upstream and downstream markets.

Key Market Trends

Growing Use of Silica in Making of Tires

The increasing application of silica in tire manufacturing is a defining trend in the global market. Precipitated silica is gaining traction as an alternative to carbon black in tire treads, delivering benefits such as reduced rolling resistance-by as much as 20% to 30%-and enhanced grip and wear resistance. These attributes are crucial for automakers striving to meet stringent emission regulations and fuel efficiency targets. The popularity of "green tires," which incorporate silica to improve vehicle performance and reduce CO₂ emissions, is on the rise in regions like Europe and North America. In addition to environmental advantages, silica-based tire compounds offer superior wet traction and braking, aligning with growing consumer preferences for safety and sustainability. This trend reflects a shift toward performance-driven, eco-conscious materials in the automotive supply chain.

Key Market Players

- Evonik Industries AG
- PPG Industries, Inc.
- Wacker Chemie AG
- AkzoNobel N.V.
- Tosoh Corporation
- Cabot Corporation
- Solvay S.A.
- Oriental Silicas Corporation
- Nissan Chemical Corporation
- Kemira Oyj

Report Scope

In this report, the Global Silica Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Silica Market, By Sales Channel:

- o Direct
- o Indirect

- Silica Market, By End Use:

- o Glass Manufacturing
- o Foundry
- o Oil & Gas
- o Fillers & Building Product
- o Ceramics
- o Chemicals
- o Others

- Silica Market, By Region:

- o North America
 - ? United States
 - ? Canada
 - ? Mexico

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- o Europe
 - ? France
 - ? United Kingdom
 - ? Italy
 - ? Germany
 - ? Spain
- o Asia Pacific
 - ? China
 - ? India
 - ? Japan
 - ? Australia
 - ? South Korea
- o South America
 - ? Brazil
 - ? Argentina
 - ? Colombia
- o Middle East & Africa
 - ? South Africa
 - ? Saudi Arabia
 - ? UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Silica Market.

Available Customizations

Global Silica Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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