

Silica Market Size, Share and Growth Analysis Report - Forecast Trends and Outlook (2025-2034)

Market Report | 2025-06-28 | 157 pages | EMR Inc.

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Report description:

The global silica market size reached around USD 51.97 Billion in 2024. The market is projected to grow at a CAGR of 10.10% between 2025 and 2034 to reach nearly USD 136.03 Billion by 2034.

Global Silica Market Growth

In 2024, the construction sector demonstrated strong growth, as indicated by a 10% growth in nominal value added and a 12% rise in gross output. Construction expenditures surpassed USD 2 trillion, maintaining a steady course during the first half of the year. Silica plays a vital role in the construction sector, serving as a fundamental component in cement, concrete, and mortar, which contributes to the strength, durability, and wear resistance of structures. Additionally, it is indispensable in the manufacturing of glass, utilised in windows, doors, and facades, fulfilling both functional and aesthetic purposes. Furthermore, silica is integrated into paints, coatings, and sealants to improve durability, weather resistance, and adhesion, thereby promoting the longevity and quality of construction projects.

As per the silica market analysis, each year, approximately 359 billion cubic meters of wastewater are generated worldwide, with over 50% of this volume undergoing treatment. Silica is extensively utilised in wastewater treatment due to its effectiveness as a filtration medium. The granular composition of silica facilitates the capture of impurities, sediments, and microorganisms, thereby enhancing the clarity and quality of water. Furthermore, silica contributes to the reduction of turbidity and the elimination of heavy metals. Its chemical stability and resistance to clogging render it an optimal selection for industrial, municipal, and drinking water treatment processes.

Key Trends and Developments

The silica market growth can be attributed to increasing construction and infrastructure development, rise in the glass

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manufacturing sector, expansion of the oil and gas sector, and use of silica sands for water filtration

October 2024

Evonik, a prominent global producer of silica, enhanced its facility located in Berkeley County, South Carolina. This expansion is aimed at increasing the production capacity of precipitated silica by 50%, addressing the rising demand from the tyre sector, especially for environmentally friendly tyres in the United States.

May 2023

U.S. Silica Holdings, Inc. introduced EverWhite Pigment, an advanced high-white pigment designed for use in coatings, building materials, and various other applications. This specialised product is capable of partially substituting or enhancing the performance of other inorganic white pigments, such as titanium dioxide (TiO₂) and aluminium trihydrate (ATH).

January 2023

Solvay, a Belgian chemical corporation, launched bio-circular silica in Europe and planned to expand to North America. The company invested in its Livorno facility in Italy to establish its first unit for circular highly dispersible silica (HDS).

July 2022

AGC Si-Tech Co., Ltd., which is engaged in the production and sale of silica products, introduced a new unified brand, RESIFATM, for its range of silica offerings.

Increasing Construction and Infrastructure Development

The rise in urbanisation and increasing global infrastructure projects are driving the demand for silica sand. Silica sand is an essential component in the manufacturing of concrete and mortar, thus supporting construction expansion in both advanced and emerging economies.

Rise in the Glass Manufacturing Sector

Silica sand plays an indispensable role in the glass manufacturing process. The rising need for glass across the construction, automotive, and electronics sectors enhances the requirement for premium-quality silica sand.

Expansion of the Oil and Gas Sector

In hydraulic fracturing (fracking), silica sand is utilised to maintain open fractures, thereby improving the extraction of oil and gas. The expansion of fracking operations has considerably increased the demand for silica sand.

Use of Silica Sands for Water Filtration

The effectiveness of silica sand as a filtration medium in water treatment processes, especially within municipal and industrial environments, has resulted in a significant increase in global demand.

Global Silica Market Trends

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A major factor contributing to the silica market expansion is the increasing demand for silica from the construction and infrastructure sectors, as it plays a crucial role in the production of concrete and glass. Notably, the glass sector is experiencing heightened demand due to its applications in the automotive, electronics, and solar energy sectors. Furthermore, the oil and gas sector remains a significant consumer, particularly in hydraulic fracturing processes where silica is utilised as a proppant. In addition, environmental regulations are prompting companies to pursue sustainable alternatives, thereby steering the market towards eco-friendly, low-dust silica products. Technological innovations in silica purification and production are also broadening their applications across various sectors, including water treatment, electronics, and industrial manufacturing.

Global Silica Industry Segmentation

The EMR's report titled "Global Silica Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Breakup by Type

- Amorphous
- Crystalline

Breakup by End User Industry

- Building and Construction
- Shale Oil and Gas
- Glass Manufacturing
- Water Treatment
- Others

Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Silica Market Share

Based on the end user industry, the market is segmented into building and construction, shale oil and gas, glass manufacturing, and water treatment, among others. The glass manufacturing segment is projected to grow at a CAGR of 13.6% during the forecast period of 2025-2034. Silica serves as an essential component in the production of glass, contributing both to its strength and clarity. It functions as a fundamental raw material in the creation of diverse glass varieties, such as container glass, flat glass, and speciality glass.

Leading Companies in the Global Silica Market

Market players are focusing on sustainable production methods to gain a competitive edge in the market.

Evonik Industries AG

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Established in 2007 and based in Essen, Germany, Evonik focuses on speciality chemicals, delivering solutions across various sectors, including healthcare, nutrition, and consumer products. The company is renowned for its advancements in high-performance materials and environmentally friendly chemical offerings.

PPG Industries, Inc.

Founded in 1883 and located in Pittsburgh, Pennsylvania, PPG Industries stands as a global frontrunner in paints, coatings, and speciality materials. It serves the automotive, aerospace, and industrial markets, emphasising protective and performance-enhancing products.

Wacker Chemie AG

Founded in 1914 and headquartered in Munich, Germany, Wacker Chemie manufactures chemicals and polymers, supplying products to sectors such as construction, textiles, and electronics. The company is committed to providing sustainable and high-quality chemical solutions on a global scale.

Cabot Corporation

Established in 1882 and situated in Boston, Massachusetts, Cabot Corporation specialises in speciality chemicals and performance materials, including carbon black and fumed silica. It serves sectors such as automotive, construction, and energy, with a strong emphasis on innovation in material science.

Other major players in the silica market are MLA Group of Industries, Oriental Silicas Corporation, Nissan Chemical Corporation, Imersys S.A., Standard Industries Inc., and Mitsubishi Chemical Group Corporation, among others.

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