

Global Silica Market Outlook to 2027

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Abstracts

Silica is a hard, unreactive, colorless compound occurring as the mineral quartz and as a principle constituent of sandstone and other rocks. According to BlueQuark Research & Consulting, the global Silica market is expected to witness a significant growth rate during the forecast period. Factors such as the increasing demand for Silica is the surging Construction Industry and the demand for silica in preparation of high-quality cement. The increasing demand for Silica in Agriculture as a fertilizer for crop enhancement and in the electronics industry is expected to propel the demand for Silica in the forecasted years. The ongoing R&D to improve the quality of Silica and make them more compliant with the ever-changing regulations is likely to act as an opportunity in the coming years. However, Carbon Black being a major substitute for Silica is likely to obstruct the Market's growth.

The construction industry is the prime consumer of Silica and is expected to drive the demand for Silica in the forecasted years. Whole grain silica is used in specialty cement, flooring, asphalt mixtures, mortars, and other industrial materials for improving durability and structural integrity. Silica performs as a functional extender which adds durability, weathering, anti-corrosion properties in caulks, sealants, and epoxy-based compounds. Silica fumes are a highly pozzolanic material used in the construction industry to enhance concrete mechanical and durability properties. The increasing usage of high-quality concrete is expected to drive the silica market in the forecasted years. The US's success in the last century was heavily dependent on the construction sector. According to the Construction Association of Americas, the industry boasts about 680,000 employers, employing over 7 million people, creating structures worth USD 1.3 trillion each year. The Mexican Government, to boost the construction industry in the country, announced a USD 43 billion investment plan to be implemented from 2020 through 2024. More than 50% of the global GDP is generated in cities, and urbanization can lead to sustainable growth if managed well by increasing productivity. Thus, the increasing demand of the construction industry is all set to propel the future

Silica market.

Major global players in the industry were Tosoh Corporation, Wacker Chemie AG, Oriental Silicas Corporation, Nissan Chemical Corporation, among others.

Asia-Pacific is expected to be the largest market for Silica in the forecasted year. Agriculture, a sector upon which the Indian economy is largely dependent. Foodgrain production, which stood at a mere 50 million tons in 1948–49, had increased almost six-fold to 296 million tons by the end of 2019-20 from an estimated 169 million hectares of permanently cropped land. This result has been achieved by using high-yield varieties of seeds, advanced irrigation technologies, fertilizers, and pesticides. Silica produces a complex reaction in plant physiology, creating a dynamic interplay between cell wall structure and plant metabolism. Although silica's effect may be latent in perfect conditions, with the introduction of abiotic stressors such as heat, drought, or salt, positive results are witnessed. Silica performs alkalizing effect in metal-heavy soil, therefore decreasing the concentration in the soil. Silica improves the plant's resistance to biotic stress in plants. It creates a protective measure against bacteria, fungi, and animals by making the plant less palatable. Silica travels to active growing points, where it reacts with an organic compound in the cell wall, making the plant stem stronger. This added strength helps the plants to withstand high winds preventing them from being destroyed. China has been funding massive infrastructural projects globally, which is expected to further strengthen its position as the focus shifts from the west to the east since the start of the 21st century. China-funded Sri-Lanka's Hambantota port, 250km south of Colombo, whose cost was estimated at USD 1.4 billion. The increasing demand for silica in the construction and agricultural industry is expected to drive the silica market in the forecasted years.

On 9th July 2021, Nouryon has raised the production capacity for surface-modified colloidal silicas at its site in Bohus, Sweden with an investment of EUR 4 million.

In May 2021, Cabot Corporation has announced a joint venture with China National Bluestar Group to build a second fumed silica manufacturing facility in China.

Global Silica Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Silica market by segmenting based on the Type (Crystalline, Amorphous), End-User Industry (Construction, Glass & Ceramic, Personal Care, Metallurgy, Electronics, Agriculture, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the

impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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