

India Self-Cleaning Glass Market, By Glass Coating (Hydrophobic, Hydrophilic), By Application (Building & Construction, Automotive, Solar Panels, Others), By Region, Competition, Forecast & Opportunities, 2018-2028

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Abstracts

The India Self-Cleaning Glass Market is anticipated to grow robustly during the forecast period 2024-2028. The developing construction sector, which increases demand for value-added glass items, as well as the growing requirement for self-cleaning glass in solar panels, which has low maintenance costs and time, are driving the market for self-cleaning glass.

As the name implies, self-cleaning glass is a type of glass that keeps its surface free of debris and grime. These glasses are made by depositing a thin layer of chemicals having photolytic and hydrophilic properties. On the surface, a coating of titanium oxide begins a chemical reaction, breaking down dirt and other impurities into tiny particles that may be readily washed away by rain or water application. The layer is hydrophilic, as opposed to normal glass, which is hydrophobic. Therefore, when water is sprayed on the glass, it spreads evenly across the surface and removes dirt. As a result of the depositing, the glass becomes simpler to clean. The self-cleaning layer of glass is classified as hydrophobic or hydrophilic. Owing to the action of water, both types of coatings are capable of self-cleaning.

Factors Propelling the Market Growth During the Forecast Period

A self-cleaning glass is beneficial to the environment. It also saves water during washing and avoids the need for additional cleaning agents. Self-cleaning glasses are well-known for their resistance to fog and glare. Self-cleaning glasses are extensively

used as glazing materials in building envelopes, windows, and as a building infrastructure partition. The usage of self-cleaning glasses in the construction sector has increased dramatically in recent years due to their capacity to clean.

Both types of coatings are capable of self-cleaning due to the action of water. Glass that cleans itself is less harmful to the environment. It also conserves water and eliminates the need for extra cleaning chemicals throughout the washing process. Self-cleaning glasses are well-known for their ability to withstand fog and glare. The rising demand for strong, scratch-resistant, and self-cleaning windows and facades will affect the rate of growth of the Self-Cleaning Glass Market. One of the key reasons driving market development is the significant rise of the construction industry. Furthermore, the decrease in maintenance time and cost will propel the market for self-cleaning glass. The self-cleaning glass sector is being driven by significant reasons such as greater disposable income, as well as growing urbanization and industrialization.

Furthermore, an increase in demand for ecologically friendly glass products would accelerate the expansion of the Self-Cleaning Glass market. Furthermore, increased demand for self-cleaning glass in various end-use sectors will have significant influence on market growth. The market's growth rate will be accelerated by the trend toward renewable energy and increased demand for self-cleaning glass for usage in skylights, conservatories, and roofs. Furthermore, increased product launches and growing demand for value-added glass items would give excellent growth prospects for the Self-Cleaning Glass Market.

Rising Demand of Solar Panels in India

A growth in demand for self-cleaning glass in solar panels, as well as green construction trends are the factors expected to drive market growth during the forecast period with appealing prospective opportunities. For instance, The Smart Cities Mission has picked 100 cities and has been allocated INR 6,450 crore (USD 779.3 million) in the 2021-2022 budget and INR 3,400 crore (USD 410.8 million) in 2020-21. government programs in India are offering chances for building, which is boosting market expansion, such as the 'Housing for All' project, which seeks to build 20 million homes for the urban population by 2022. As a result of this recent investment, the market is likely to rise at a rapid pace.

However, the market's growth will be limited due to the high cost and inefficiency of self-cleaning glasses. Furthermore, a lack of self-cleaning glass nomenclature, as well as a poor penetration rate in emerging economies, would hinder industry growth. People's

lack of knowledge regarding self-cleaning glass technology in the country would act as a key market restriction, limiting the industry's development pace even more.

Market Segmentation

The India Self-Cleaning Glass market is divided into glass coating, and application. Based on glass coating, the market is segmented into hydrophobic and hydrophilic. Based on application, the market is further segmented into building & construction, automotive, solar panels and others.

Market player

Major players operating in India Self-Cleaning Glass Market are Gobind Glass House, United Graphix, AYSHA GLASS, B M Sornampillai Sons, Float Glass Centre, Joy Enterprise, Skaluminium Enterprises, Waniya Glass & Interior, Hari Prakash Glass & Plywood, and Saint-Gobain Glass India Pvt. Ltd.

Report Scope:

In this report, India Self-Cleaning Glass Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Self-Cleaning Glass Market, By Type:

Hydrophobic

Hydrophilic

India Self-Cleaning Glass Market, By Application:

Building & Construction

Automotive

Solar Panels

Others

India Self-Cleaning Glass Market, By Region:

West

North

South

East

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in India Self-Cleaning Glass Market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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The data given for any year represents the market during the period, i.e., 1st April of the former year to 31st March of latter year. Eg: For FY2023E, the data represents the period, 1st April 2022 to 31st March 2023.

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