

UAE Self-Cleaning Glass Market By Glass Coating (Hydrophobic, Hydrophilic), By Application (Building & Construction (Residential, Non-Residential), Automotive, and Solar Panels), By Region, Competition, Forecast and Opportunities, 2028

Market Report (3 business days) | 2023-10-03 | 84 pages | TechSci Research

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Report description:

UAE Self-Cleaning Glass Market is predicted to proliferate during the forecast period 2024-2028F. Self-cleaning glass is a specific type of glass with a surface that maintains its cleanliness even in harsh environments. A thin coating of chemicals with photolytic and hydrophilic qualities is applied on the glass surface to create low-maintenance glass. This makes the glass easier to clean. Fog and glare are not an issue with self-cleaning glass. The substance that is put on the glass does not affect its mechanical, thermal, or acoustic qualities. Self-cleaning glass is utilized in places including facades and higher elevations that are difficult to access for manual cleaning. It includes a coating of titanium oxide on the surface that, via a chemical reaction, breaks down dirt and other material into tiny bits that are easily wiped off by rain or the application of water. The layer is also hydrophilic, which means that it attracts water as opposed to regular glass, which is hydrophobic and repels it. As a result, water spreads evenly across the glass and easily wipes off the dirt. Self-cleaning glass reduces the need for maintenance and saves time and labor.

Increasing Demand from Building & Construction Sector

Self-cleaning glass is often used in windows, solar panels, building envelope glazing, and internal partitions. In recent years, the usage of self-cleaning glasses in the construction sector has increased significantly due to their ability to clean themselves. Upcoming mega projects, such as Abu Dhabi Midfield Terminal, Etihad Rail passenger train, Burj Binghatti, Abu Dhabi Midfield Terminal, SeaWorld Abu Dhabi, Dubai Wasl Tower, Baccarat Hotel, and Residences Dubai, fuel the demand for self-cleaning glass in upcoming years. Additionally, in the UAE, the Ministry of Energy & Infrastructure is set to invest around USD 3.4 billion in development projects by 2023 and the UAE government intends to invest approximately USD 23 billion in infrastructure projects across the country. Thus, the above-mentioned factors are expected to boost the market for self-cleaning glasses in the UAE over the forecast period.

Self-Cleaning Glass Less Harmful Impact on Environment

Self-cleaning glass, as its name suggests, is a form of glass that maintains a surface free of dirt and grime. A thin coating of

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compounds with photolytic and hydrophilic characteristics is deposited to create these glasses. When water or rain is applied, a titanium oxide coating on the surface starts a chemical process that reduces dirt and other contaminants into small particles that may be easily wiped away. Unlike ordinary glass, which is hydrophobic, the layer is hydrophilic. As a result, when water is sprayed on the glass, it distributes evenly across the surface and cleans the dirt. As a result of the depositing, the glass becomes simpler to clean. Hydrophobic and hydrophilic glass have different self-cleaning layers. Due to the action of water, both types of coatings are capable of self-cleaning.

Self-cleaning glass that has less of an adverse effect on the environment is advantageous for the country. Additionally, it saves water while washing and eliminates the need for additional cleaning chemicals. Self-cleaning eyewear is recognized for its resistance to glare and mist. Self-cleaning glass is often used as a building infrastructure barrier, as well as for doors and windows. Their use in the building sector has increased dramatically as a result of their capacity to clean themselves.

The rapid expansion of the building sector is one of the primary factors influencing market expansion. The market for self-cleaning glass also grows as a result of the reduction in maintenance time and expense. Due to the effect of water, both types of coatings can clean themselves. The environment is less harmed by the self-cleaning glass. Additionally, it saves water and does away with unnecessary cleaning agents that are required 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 is expected to affect the rate of growth of the Self-Cleaning Glass Market in the upcoming years.

Growing Number of Smart Cities

The "UAE Vision 2021" and city-level policies, such as the "Dubai 2040 Urban Master Plan" and the "Abu Dhabi Economic Vision 2030" that support the establishment of sustainable infrastructure, are directly aligned with the UAE's objectives to build several smart, sustainable cities around the country. The UAE defines "smart cities" as environmentally responsible urban development initiatives that are technically connected via the Internet of Things and contemporary ICT (Information & Communication Technology) (IoT). One of the biggest initiatives the UAE has made to develop smart cities is the Zayed Smart City Project in Abu Dhabi. Other significant initiatives include the "Masdar City Project" in Abu Dhabi and "The Sustainable City Project" in Dubai. Dubai also built 30,000 homes in Desert Road City for foreigners and Emiratis intending to reduce energy use. To reduce its carbon impact by 30% by 2030, the UAE. The planned smart, sustainable cities around the nation are now being constructed following green construction standards. The UAE self-cleaning glass market is anticipated to benefit greatly from such elevated goals over the next few years.

Booming Tourism and Hospitality Sector

The construction of Dubai's infrastructure has been funded in large part by the government, which has led to a boom in the city's tourist and hospitality sectors. Such investments have been made with the dual objectives of drawing visitors and preparing the country for the global event Dubai Expo 2020, which was finished in March 2022, anticipating foreign investments in the country. Policies, such as the "Dubai Tourism Strategy 2025" and the "Dubai 2040 Urban Master Plan," aim at increasing the number of tourists who visit Dubai and improving the nation's tourism and hospitality infrastructure by 134%, boosting the tourism and hospitality industry in the UAE.

According to The World Travel and Tourism Council prediction, in 2027, the travel and tourism sector in the UAE would generate revenues of approximately USD 72 billion and contribute 12.7% to GDP. Thus, it is anticipated that the growth of the UAE self-cleaning glass market is expected to be driven by a developing tourist and hospitality industry in the upcoming years.

In addition, Sharjah is being significantly impacted by the growth of Industrial Zones, New Tourism Projects, Retail Infrastructure, and the increasing Residential Sector in the region. The Moon Retreat in Mleiha, Al Suhub Rest House in Khorfakkan, Kalba Waterfront, and other key tourism-related projects have all been declared by the Sharjah Commerce and Tourism Development Authority (SCTDA). These factors are anticipated to expand the use of self-cleaning glass in the Sharjah hotel industry during the next few years, which in turn, will boost the UAE self-cleaning glass market.

Market Segmentation

The UAE self-cleaning glass market is divided into glass coating, application, and region. Based on glass coating, the market is segmented into hydrophobic and hydrophilic. Based on application, the market is segmented into building & construction, automotive, solar panels, and others. The building & construction segment is further divided into subdivided into residential and non-residential. Based on region, the market is segmented into Dubai, Abu Dhabi, Sharjah, and the Rest of UAE.

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Company Profiles

Emirates Float Glass LLC, Pilkington Group Limited, Saint-Gobain Eastern Mediterranean and Middle East, Feb Tech Glass Work LLC, Select Glass Industries LLC., Guardian Industries Holdings LLC, Khaiber Star Safety Glass Factory L.L.C, and Gulf Glass Industries Co. LLC are among the major players that are driving the growth of the UAE self-cleaning glass market.

Report Scope:

In this report, the UAE self-cleaning glass market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

■ UAE Self-Cleaning Glass Market, By Glass Coating:

○ Hydrophobic

○ Hydrophilic

■ UAE Self-Cleaning Glass Market, By Application:

○ Building & Construction

■ Residential

■ Non-Residential

○ Automotive

○ Solar Panels

○ Others

■ UAE Self-Cleaning Glass Market, By Region:

○ Dubai

○ Abu Dhabi

○ Sharjah

○ Rest of UAE

Competitive Landscape

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

Available Customizations:

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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