

Electrochromic Glass Market By Application (Windows, Mirror, Display), By End Use Industry (Construction, Automotive, Aerospace, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-11-01 | 219 pages | Allied Market Research

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Report description:

The global electrochromic glass market size was valued at \$1.7 billion in 2022, and is projected to reach \$4.1 billion by 2032, growing at a CAGR of 9.2% from 2023 to 2032.

Electrochromic glass, acknowledged as smart glass or dynamic glass, represents an innovative and versatile science that has gained large interest in upcoming years. This type of glass has the unique capability to change its transparency or shade in response to an exterior stimulus, such as an electric current. Electrochromic glass is a specialized type of glass that utilizes electrochromic materials to change its optical residences when subjected to an electric field. This dynamic transformation permits it to change between transparent and opaque states or alter its color.

One of the important advantages of electrochromic glass in buildings is its ability to control solar heat gain and glare. It saves a enormous quantity of electricity by lowering the want for artificial lights and air conditioning by dynamically altering the colour of the glass. Electrochromic glass promotes daylighting in interior spaces. It maximizes natural mild penetration while minimizing glare, growing a more blissful and productive environment.

Electrochromic glass has the capability to trade its tint, helping to manage solar heat. During summer, it darken to block excessive heat, decreasing the load on cooling systems. In contrast, during colder months, it end up extra transparent to maximize passive solar heating. Electrochromic glass offers a versatile answer for privacy. It be instantly transformed from transparent to opaque, making sure occupants' privacy when needed, especially in office spaces, bathrooms, and hospitality. The electrochromic glass allows architects and designers larger flexibility in their designs. It be seamlessly integrated into modern architectural designs, providing a smooth and sophisticated appearance. This technology provides amazing UV protection, decreasing the fading of indoors furnishings and artworks through blocking hazardous UV rays while keeping natural light. The growing focus?on sustainability and decreasing the carbon footprint is driving the adoption of electrochromic glass. Its energy-saving houses align with international efforts to combat climate change. Various international locations and areas are

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implementing energy-efficient building codes and regulations. Electrochromic glass fulfills these requirements, making it a compelling preference for architects and builders. The emphasis on creating more comfortable and productive environments is boosting the adoption of electrochromic glass. It lets in occupants to have increased control over their surroundings. For the purpose of analysis, the electrochromic glass market scope covers segmentation based on application, end-use industry, and region. The report provides information on various applications including windows, mirror, and display. Furthermore, the major end-use industry covered in the study include construction, automotive, aerospace, and others. In addition, it analyzes the current market trends across different regions such as North America, Europe, Asia-Pacific, and LAMEA.

Increase in usage of electrochromic glass in automotive sunroofs and windows drives electrochromic glass market growth. Electrochromic glass is an innovative technology increasingly used in the automotive industry. It can change its tint or opacity in response to electrical voltage, offering several benefits. It allows passengers to manage sunlight and heat, enhancing comfort during journeys. In January 2022, Eye Lights & AGC added industrialized augmented fact capabilities to vehicles, presenting a large virtual display screen and prolonged projection distance. Additionally, electrochromic glass adds sophistication to the vehicle's graph and allows for personalization by customizing tint levels.

High cost of electrochromic glass is expected to restraint the market during the forecast period. Electrochromic glass comes with a higher price tag due to its tricky manufacturing process. Unlike regular glass made from primary materials like sand, soda ash, and limestone, electrochromic glass involves the incorporation of expensive substances in thin layers. These materials react to electrical signals, permitting the glass to change its transparency. The specialised production strategies add to the normal cost of electrochromic glass.

Moreover, integrating electrochromic glass into existing buildings can be costly. Retrofitting buildings with this technology often necessitates huge modifications to accommodate the electrical systems and controls required for clever glass functionality. These adjustments make bigger both fabric and labor expenses, which might make electrochromic glass less attractive for certain constructing projects.

In addition, the electrochromic glass market share covers profiles of key industry participants such as AGC Inc., ChromoGenics AB, Saint-Gobain S.A., SAGEGLASS, Pleotint LLC, Polytronix, Inc., Gentex Corporation, Guardian Industries Corporation, Suntuitive Glass, and, View, Inc.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the electrochromic glass market analysis from 2022 to 2032 to identify the prevailing electrochromic glass market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the electrochromic glass market forecast to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global electrochromic glass market trends, key players, market segments, application areas, and market growth strategies.

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- Patient/epidemiology data at country, region, global level
- Regulatory Guidelines
- Additional company profiles with specific to client's interest
- Additional country or region analysis- market size and forecast
- Historic market data
- Import Export Analysis/Data
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)
- Market share analysis of players at global/region/country level
- Product Consumption Analysis
- Volume Market Size and Forecast

Key Market Segments

By Application

- Windows
- Mirror
- Display

By End Use Industry

- Construction
- Automotive
- Aerospace
- Others

By Region

- North America

? U.S.

? Canada

? Mexico

- Europe

? Germany

? France

? UK

? Spain

? Italy

? Rest of Europe

- Asia-Pacific

? China

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- ? Japan
- ? India
- ? South Korea
- ? Australia
- ? Rest of Asia-Pacific
- LAMEA
- ? Brazil
- ? South Africa
- ? Saudi Arabia
- ? Rest of LAMEA
- Key Market Players
- ? PLEOTINT LLC
- ? View, Inc.
- ? Guardian Industries
- ? ChromoGenics
- ? RavenWindow
- ? AGC Inc.
- ? Polytronix, Inc.
- ? Saint-Gobain
- ? SAGEGLASS
- ? GENTEX CORPORATION

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