

# **Coated Solar Control Glass Market By Type (Low-Emissivity (Low-E) Glass, Reflective Coated Glass) , By Coating Method (Pyrolytic, Sputtered) By Application (Residential Buildings, Commercial Buildings, Automotive) : Global Opportunity Analysis and Industry Forecast, 2024-2032**

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## **Abstracts**

### **Coated Solar Control Glass Market**

The coated solar control glass market was valued at \$5.3 billion in 2023 and is projected to reach \$13.1 billion by 2032, growing at a CAGR of 10.5% from 2024 to 2032.

A coated solar control glass is a type of glass glazed with double or triple layers of metal oxide on its internal surface. The coated metal oxide exhibits remarkable optical properties which enable the blocking of radiant heat energy of the sun. The major benefits of installing coated solar control glasses include enhanced comfort for occupants, UV protection, glare reduction, and improved energy efficiency.

Increase in sustainability initiatives in infrastructure development has boosted the adoption of coated solar control glass, augmenting the growth of the market. In addition, rise in awareness regarding the harmful effects of the sun's UV radiation is a key driver of the coated solar control glass market. Furthermore, the glass is observing a surge in adoption due to its aesthetic appeal, propelling the market development. To enhance the applicability of the glass, development of sturdy, ultrathin coated solar control glass is trending in the market. This type of glass exhibits high flexibility and improved light transmission, presenting the possibility of its utility in applications beyond buildings and

infrastructure.

However, the high cost of coated solar control glass as compared to traditional glasses hampers the growth of the market. Furthermore, complex installation process of the glass requires significantly skilled technicians, lack of which hinders the development of the market. On the contrary, as contractors and developers are striving to reduce energy consumption of their constructed buildings to comply with the Green Building Initiatives, the coated solar control glass market is anticipated to witness several lucrative opportunities in the future. According to the International Energy Agency, buildings account for approximately 30% of total energy consumption. Therefore, the installation of coated solar control glass is a remarkable step to enhance the energy efficiency of buildings as the reflective capabilities of the glass keep buildings cool in summers and warm in winters.

### Segment Review

The coated solar control glass market is segmented into type, coating method, application, and region. On the basis of type, the market is bifurcated into low-emissivity (low-E) glass and reflective coated glass. Depending on coating method, it is divided into pyrolytic and sputtered. By application, it is classified into residential buildings, commercial buildings, and automotive. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

### Key Findings

On the basis of type, the low-emissivity (low-E) glass segment is expected to hold a high market share during the forecast period.

Depending on coating method, the sputtered segment is projected to dominate the market by 2032.

By application, the commercial buildings segment is anticipated to account for a high market share during the forecast period.

Region wise, Asia-Pacific is predicted to be the highest revenue generator by 2032.

### Competition Analysis

The leading players operating in the global coated solar control glass market include

Guardian Industries Holdings, AGC Glass Europe, Saint-Gobain, Nippon Sheet Glass Co., Ltd, Vitro, Xinyi Glass Holdings Limited, CARDINAL GLASS INDUSTRIES, INC, Euroglas GmbH, Jinjing (Group) Co., Ltd., and Sisecam. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Investment Opportunities

Product Life Cycles

Upcoming/New Entrant by Regions

Technology Trend Analysis

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

Market share analysis of players at global/region/country level

SWOT Analysis

## Key Market Segments

### By Type

Low-Emissivity (Low-E) Glass

Reflective Coated Glass

### By Coating Method

Pyrolytic

Sputtered

#### By Application

Residential Buildings

Commercial Buildings

Automotive

#### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Thailand

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Guardian Industries Holdings

AGC Glass Europe

Saint-Gobain

Nippon Sheet Glass Co., Ltd

Vitro

Xinyi Glass Holdings Limited

CARDINAL GLASS INDUSTRIES, INC

Euroglas GmbH

Jinjing (Group) Co., Ltd.

Sisecam

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