

Global Low-E (emissivity) Glass Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-E (emissivity) Glass market size is expected to reach \$ 22770 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Low emissivity coated glass is also called Low-E glass. Low-E glass is a kind of glass whose surface is coated with low emissivity coating silver and metal-oxide film so that the glass takes on different colors. Its main functions are to reduce the U value of glass, selectively reduce S_c and comprehensively improve energy saving property of glass. Its main features: high infrared reflectivity, ability to directly reflect far infrared thermal radiation, low surface emissivity, weak ability to absorb external energy, hence little reradiated heat energy; wide range of shading coefficient SC, and ability to control sun light transmittance according to needs to cater to requirements of different areas. It can be divided into high transmission low-E glass and sun shading low-E glass.

High transmission Low-E glass: shading coefficient of $S_c > 0.5$, reducing little transmitted sun light. It is very suitable to be used in the northern area which usually adopts heating system. In winter, sun rays can penetrate this kind of Low-E glass to reach houses. After absorbed by indoor objects, they become far infrared thermal radiation not able to penetrate Low-E glass. Such thermal radiation is confined indoors together with the thermal radiation emitted by indoor heaters, so that heating costs can be reduced.

Sun-shading Low-E glass: shading coefficient of $S_c < 0.5$, reducing much transmitted sun light. It is very suitable to be used in the southern area which usually uses air-conditioners. In summer, it can to the largest extent prevent sun rays from reaching houses as well as block far infrared thermal radiation from outdoors, so that the costs of air conditioning can be reduced.

According to the layer of silver contained in the film structure, it can also be divided into single-silver Low-E glass, double-silver Low-E glass and three-silver low-E glass. On some occasions, a kind of Low-E product that is high-transmitting and requires very low shading coefficient is needed. Therefore, double-silver Low-E glass came into being. In normal cases, if the shading coefficient is the same, double-silver Low-E glass has higher visible light transmissivity than single-silver Low-E glass. Three-silver Low-E glass with the same shading efficient has even higher visible light transmissivity. Double-silver glass can be used on nearly any occasion. It has the following several characteristics: lower shading coefficient than sun shading Low-E glass, low radiance, heat preservation, low reflectivity, and fine permeability.

Definition of Low-E Insulating Glass and Comparison between it and Common Single Glazing and Common Insulating Glass in Energy-saving

Low-E insulating glass is preferred kind of energy-efficient building materials for energy-saving buildings advocated by the country. It reaches and even far exceeds the national required standards for energy conservation of materials used in public buildings and residential buildings. Relying on vacuum magnetron sputtering method, it, after the surface of common building glass is coated with metallic silver and auxiliary layer, is integrated with another piece of glass through various technology into insulating glass with dry air in the middle. Compared with common energy-saving glass, Low-E insulating glass can, through silver's very high reflectivity of heat radiation, keep more energy from sunlight outdoors in summer while ensuring natural lighting indoors. In winter, it better prevents indoor heat from getting out of room from the glass, so that obvious effects of energy conservation for building can be produced. Compared with common single glazing, energy-saving glass (Low-E insulating glass) can better preserve heat. It can save 67-70% of energy, consuming around 40% less energy compared to common insulating glass (see the table below).

Solar Control Low-E Laminated Glass (Third Generation Low-E Laminated Glass)

Solar control Low-E laminated glass refers to energy-saving laminated glass formed after special Low-E glass manufactured through vacuum magnetron sputtering method are then processed through special lamination technology. Compared with foreign XIR laminated glass, solar control Low-E laminated glass features multiple variety, abundant colors, superior performance, and wide applicable scope. In processing, solar control low-E film is stable in quality.

Global key players of low-E (emissivity) glass include Saint-gobain, NSG, AGC, etc. The

top three players hold a share over 25%.

China is the largest producer, has a share about 50%.

In terms of product type, double is the largest segment, occupied for a share of 47%, and in terms of application, commercial has a share about 63 percent.

This report studies the global Low-E (emissivity) Glass production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-E (emissivity) Glass and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low-E (emissivity) Glass that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-E (emissivity) Glass total production and demand, 2021-2032, (Million Sq.m)

Global Low-E (emissivity) Glass total production value, 2021-2032, (USD Million)

Global Low-E (emissivity) Glass production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Sq.m), (based on production site)

Global Low-E (emissivity) Glass consumption by region & country, CAGR, 2021-2032 & (Million Sq.m)

U.S. VS China: Low-E (emissivity) Glass domestic production, consumption, key domestic manufacturers and share

Global Low-E (emissivity) Glass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Sq.m)

Global Low-E (emissivity) Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Sq.m)

Global Low-E (emissivity) Glass production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Million Sq.m)

This report profiles key players in the global Low-E (emissivity) Glass market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Saint-gobain, NSG, AGC, Xinyi Glass, Guardian Industries, CSG Holding, Vitro Architectural Glass (PPG), Cardinal Glass, SiseCam, Taiwan Glass, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Low-E (emissivity) Glass market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Sq.m) and average price (US\$/Sq.m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low-E (emissivity) Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-E (emissivity) Glass Market, Segmentation by Type:

Single

Double

Triple

Global Low-E (emissivity) Glass Market, Segmentation by Application:

Residential

Commercial

Other

Companies Profiled:

Saint-gobain

NSG

AGC

Xinyi Glass

Guardian Industries

CSG Holding

Vitro Architectural Glass (PPG)

Cardinal Glass

Sisecam

Taiwan Glass

Kibing Group

Jinjing

SYP

Central Glass

Haikong Special Glass

Huadong Coating Glass

Key Questions Answered:

1. How big is the global Low-E (emissivity) Glass market?
2. What is the demand of the global Low-E (emissivity) Glass market?
3. What is the year over year growth of the global Low-E (emissivity) Glass market?
4. What is the production and production value of the global Low-E (emissivity) Glass market?
5. Who are the key producers in the global Low-E (emissivity) Glass market?
6. What are the growth factors driving the market demand?

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