

Global LOW-E Glass Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global LOW-E Glass market size was valued at US\$ 27400 million in 2024 and is forecast to a readjusted size of USD 34130 million by 2031 with a CAGR of 3.2% during review period.

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 mainly functions are to reduce the U value of glass, selectively reduce Sc and comprehensively improve energy saving property of glass. It mainly 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 $Sc > 0.5$, 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 $Sc < 0.5$, 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.

The major global manufacturers of low radiation Glass are Saint-Gobain, NSG, PPG, AGC, Guardian Industries, Schott and Cardinal Glass.

This report is a detailed and comprehensive analysis for global LOW-E Glass market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global LOW-E Glass market size and forecasts, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (USD/Sq.m), 2020-2031

Global LOW-E Glass market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (USD/Sq.m), 2020-2031

Global LOW-E Glass market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (USD/Sq.m), 2020-2031

Global LOW-E Glass market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sq.m), and ASP (USD/Sq.m), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for LOW-E Glass

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global LOW-E Glass market based on the following parameters - company overview, sales quantity, revenue, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Saint-gobain, NSG, PPG, AGC, Guardian Industries, Schott, Cardinal Glass, Padihamglass, CSG Holding, Xinyi Glass, etc.

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

Market Segmentation

LOW-E Glass market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single LOW-E Glass

Double LOW-E Glass

Triple LOW-E Glass

Market segment by Application

Residential

Commercial

Others

Major players covered

Saint-gobain

NSG

PPG

AGC

Guardian Industries

Schott

Cardinal Glass

Padihamglass

CSG Holding

Xinyi Glass

Yaohua Pilkington Glass

Taiwan Glass

Blue Star Glass

Sanxin Glass

Qingdao Jinjing

Kibing Group

Huadong Coating Glass

Zhongli Holding

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe LOW-E Glass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LOW-E Glass, with price, sales quantity, revenue, and global market share of LOW-E Glass from 2020 to 2025.

Chapter 3, the LOW-E Glass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LOW-E Glass breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025, and LOW-E Glass market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LOW-E Glass.

Chapter 14 and 15, to describe LOW-E Glass sales channel, distributors, customers, research findings and conclusion.

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