

Global Infrared Optical Glass Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Optical Glass market size is expected to reach \$ 582 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032). Infrared optical glass is a special type of glass material. Unlike ordinary glass, it allows infrared light (thermal radiation) to pass through rather than block it. It is mainly used to manufacture lenses and windows in infrared thermal imagers, night vision devices, and other equipment. Common types include chalcogenide glasses, which are mainly composed of elements such as sulfur, selenium, and tellurium, as well as crystalline materials such as germanium, silicon, and gallium arsenide. It has high transmittance in atmospheric windows of 1-3 μ m, 3-5 μ m, and 8-12 μ m, making it a core material for modern infrared optical technology.

The gross profit margin of this industry is around 30%.

Development Trends

1. High Performance: High refractive index and low dispersion: With increasing demands for accuracy and resolution in infrared imaging, the development of infrared optical glass with high refractive index and low dispersion has become a trend to reduce aberrations in optical systems and improve image quality. For example, by introducing rare earth elements or special oxides, glass materials with higher refractive indices and lower dispersion can be developed to meet the needs of high-end infrared optical systems.
1. Wide-band Transmission: Expanding the infrared transmission band to achieve high transmittance across a wide band from near-infrared to far-infrared, adapting to the infrared spectral requirements of different applications, such as glass materials that simultaneously cover multiple atmospheric windows (1-3 μ m, 3-5 μ m, 8-12 μ m).
2. Environmentally Friendly: Arsenic-free and lead-free: With increasing environmental awareness, traditional arsenic- and lead-containing infrared optical glasses are gradually being replaced. Developing non-toxic and harmless environmentally friendly

glass materials, such as arsenic-free germanium-based chalcogenide glasses, meets both performance requirements and environmental regulations.

Recyclability and Sustainability: Exploring recyclable technologies for glass materials to reduce resource consumption and environmental impact during production, promoting the sustainable development of the infrared optical glass industry.

3. Multifunctionality: Multispectral capabilities: Developing glass materials with multispectral transmittance properties in visible, near-infrared, and mid-infrared ranges, suitable for multispectral imaging, monitoring, and other applications, such as the research and application of novel materials like sulfide glasses.

Intelligent response function: Research infrared optical glass with response functions to environmental parameters such as temperature, humidity, and pressure to achieve dynamic adjustment of optical performance, such as thermochromic and electrochromic functional glass.

This report studies the global Infrared Optical Glass production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Optical 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 Infrared Optical Glass that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Infrared Optical Glass total production and demand, 2021-2032, (Tons)

Global Infrared Optical Glass total production value, 2021-2032, (USD Million)

Global Infrared Optical Glass production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Infrared Optical Glass consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Infrared Optical Glass domestic production, consumption, key domestic manufacturers and share

Global Infrared Optical Glass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Infrared Optical Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Infrared Optical Glass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Infrared Optical 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 Umicore, Amorphous Materials, Vitron

Spezialwerkstoffe, CDGM Glass, Hubei New Huaguang, VOT, LightPath Technologies, Schott, AGC, Corning, 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 Infrared Optical Glass market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) 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 Infrared Optical Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Optical Glass Market, Segmentation by Type:

Chalcogenide Glass

Germanium

ZnSe and ZnS

Others

Global Infrared Optical Glass Market, Segmentation by Composition:

Contains Germanium

Germanium-free

Global Infrared Optical Glass Market, Segmentation by Marketing Method:

Direct Sales

Distribution

Global Infrared Optical Glass Market, Segmentation by Application:

Military and Defense

Security System

Automotive

Industrial

Medical and Other

Companies Profiled:

Umicore

Amorphous Materials

Vitron Spezialwerkstoffe

CDGM Glass

Hubei New Huaguang

VOT

LightPath Technologies

Schott

AGC

Corning

Ohara Corporation

Sumita Optical Glass

Crystran

Gabrielle

Key Questions Answered:

1. How big is the global Infrared Optical Glass market?
2. What is the demand of the global Infrared Optical Glass market?
3. What is the year over year growth of the global Infrared Optical Glass market?
4. What is the production and production value of the global Infrared Optical Glass market?
5. Who are the key producers in the global Infrared Optical Glass market?
6. What are the growth factors driving the market demand?

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