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Global Ultra-high Refractive Index Lens Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra-high Refractive Index Lens Material market size is expected to reach $ 3412 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, the global production of ultra-high refractive index lens material reached approximately 25.77 million Pcs, with an average global market price of around US$80 per Pc. In the same year, the global total production capacity of ultra-high refractive index lens material reached 32.21 million Pcs. The industry average gross profit margin of this product reached 46%.Ultra-high refractive index lens materials refer to high-performance optical materials with a refractive index typically reaching 1.74 or higher. These materials significantly reduce lens thickness and weight under the same refractive power conditions and are primarily used in high-end eyeglass lenses, medical optics, precision imaging, AR/VR devices, and specialized industrial optics. Traditional resin lenses typically have a refractive index of 1.50 or 1.56, while ultra-high refractive index materials enhance light bending capabilities through chalcogenide monomers, high-sulfur polyurethane, thiourea resins, high-density aromatic compounds, and nanocomposite technology, achieving a 'thinner, lighter, and more aesthetically pleasing' effect, especially suitable for people with high myopia. Current mainstream materials include 1.74 resin lens materials, MR series high refractive index monomers, chalcogenide optical resins, and some high-end glass optical materials. With the rising global myopia rate, the upgrading of high-end consumption, and the development of AR smart glasses, ultra-high refractive index lens materials have become a high-value-added sub-segment in the optical materials industry.

From an industry chain perspective, the upstream of the ultra-high refractive index lens material industry mainly includes suppliers of chemical monomers, sulfurized materials,

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isocyanates, high-purity optical additives, nanomaterials, and precision mold equipment. The midstream comprises manufacturers of high-refractive-index resin materials, producers of high-end lens substrates, and lens coating processing companies. Core technologies involve polymerization processes, dispersion control, Abbe number optimization, impact resistance, and ultra-low chromatic aberration design. The downstream covers eyewear brands, optometry chains, ophthalmology hospitals, consumer electronics manufacturers, AR/VR equipment companies, and industrial optical systems. The industry's value is primarily concentrated in midstream material formulations and high-end coating processes. Japanese companies have long held core patents in high-refractive-index monomers and MR materials, resulting in high technological barriers in the high-end market. In recent years, Chinese companies have been gradually making breakthroughs in the domestic production of high-refractive-index materials of 1.74 and above.

From an industry outlook perspective, ultra-high refractive index lens materials have strong future growth potential, mainly driven by the continued increase in the global myopia population, the rising proportion of high myopia, consumer demand for thinner lenses, and the rise of smart wearable devices. The Asian market, in particular, has a large population of highly myopic individuals, leading to significant growth in demand for 1.74 ultra-thin lenses. Meanwhile, emerging fields such as AR/VR optical systems, waveguide lenses, automotive HUDs, and medical endoscopes are also driving the development of high-refractive-index materials towards higher optical performance. Future industry technology will focus on balancing and optimizing 'high refractive index + high Abbe number + low dispersion + lightweight,' as well as on nanocomposite materials, freeform lenses, and smart photochromic materials. Due to the strong brand premium and consumer upgrade attributes of high-end lenses, the overall profitability of the high-end lens industry is significantly higher than that of the ordinary resin lens market.

This report studies the global Ultra-high Refractive Index Lens Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-high Refractive Index Lens Material 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 Ultra-high Refractive Index Lens Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global Ultra-high Refractive Index Lens Material total production and demand, 2021-2032, (K Pcs)
Global Ultra-high Refractive Index Lens Material total production value, 2021-2032, (USD Million)
Global Ultra-high Refractive Index Lens Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)
Global Ultra-high Refractive Index Lens Material consumption by region & country, CAGR, 2021-2032 & (K Pcs)
U.S. VS China: Ultra-high Refractive Index Lens Material domestic production, consumption, key domestic manufacturers and share
Global Ultra-high Refractive Index Lens Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)
Global Ultra-high Refractive Index Lens Material production by Refractive Index, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)
Global Ultra-high Refractive Index Lens Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Ultra-high Refractive Index Lens Material 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 Corning, Hoya, Zeiss, Mitsui Chemicals, Inc., TOKAI OPTICAL, Rodenstock, EssilorLuxottica, Shamir Optical Industry Ltd., Conant Optical (Shanghai) Co., Ltd., Mingyue Optical Lens Co., Ltd., 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 Ultra-high Refractive Index Lens Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Pcs) and average price (US$/Pc) by manufacturer, by Refractive Index, 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.

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Global Ultra-high Refractive Index Lens Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-high Refractive Index Lens Material Market, Segmentation by Refractive Index:

1.74

1.9

2.0

Other

Global Ultra-high Refractive Index Lens Material Market, Segmentation by Material System:

Thiourea Resin Materials

High-Sulfur Resin Materials

High-Refractive PC Materials

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High-Refractive Glass Materials

Nanocomposite Optical Materials

Global Ultra-high Refractive Index Lens Material Market, Segmentation by Application:

Consumer Electronics

Optical Communications

Automotive

Medical

Others

Companies Profiled:

Corning

Hoya

Zeiss

Mitsui Chemicals, Inc.

TOKAI OPTICAL

Rodenstock

EssilorLuxottica

Shamir Optical Industry Ltd.

Conant Optical (Shanghai) Co., Ltd.

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Mingyue Optical Lens Co., Ltd.

Hubei Xinhua Optical Information Materials Co., Ltd.

Seiko Vision

Chemilens

Asahi Lite Optical Co., Ltd.

Conant Optical

Key Questions Answered:
1. How big is the global Ultra-high Refractive Index Lens Material market?
2. What is the demand of the global Ultra-high Refractive Index Lens Material market?
3. What is the year over year growth of the global Ultra-high Refractive Index Lens Material market?
4. What is the production and production value of the global Ultra-high Refractive Index Lens Material market?
5. Who are the key producers in the global Ultra-high Refractive Index Lens Material market?
6. What are the growth factors driving the market demand?

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Figure 68. Research Process and Data Source

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