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Global Ultra-high Refractive Index Lens Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ultra-high Refractive Index Lens Material market size was valued at US$ 2122 million in 2025 and is forecast to a readjusted size of US$ 3412 million by 2032 with a CAGR of 7.0% during review period.

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.

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From an industry chain perspective, the upstream of the ultra-high refractive index lens material industry mainly includes suppliers of chemical monomers, sulfurized materials, 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 is a detailed and comprehensive analysis for global Ultra-high Refractive Index Lens Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Refractive Index 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.

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Key Features:

Global Ultra-high Refractive Index Lens Material market size and forecasts, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pc), 2021-2032

Global Ultra-high Refractive Index Lens Material market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pc), 2021-2032

Global Ultra-high Refractive Index Lens Material market size and forecasts, by Refractive Index and by Application, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pc), 2021-2032

Global Ultra-high Refractive Index Lens Material market shares of main players, shipments in revenue ($ Million), sales quantity (K Pcs), and ASP (US$/Pc), 2021-2026

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 Ultra-high Refractive Index Lens Material

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 Ultra-high Refractive Index Lens Material 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 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.

Market Segmentation

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Ultra-high Refractive Index Lens Material market is split by Refractive Index and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Refractive Index, 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 Refractive Index

1.74

1.9

2.0

Other

Market segment by Material System

Thiourea Resin Materials

High-Sulfur Resin Materials

High-Refractive PC Materials

High-Refractive Glass Materials

Nanocomposite Optical Materials

Market segment by Application

Consumer Electronics

Optical Communications

Automotive

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Medical

Others

Major players covered

Corning

Hoya

Zeiss

Mitsui Chemicals, Inc.

TOKAI OPTICAL

Rodenstock

EssilorLuxottica

Shamir Optical Industry Ltd.

Conant Optical (Shanghai) Co., Ltd.

Mingyue Optical Lens Co., Ltd.

Hubei Xinhua Optical Information Materials Co., Ltd.

Seiko Vision

Chemilens

Asahi Lite Optical Co., Ltd.

Conant Optical

Market segment by region, regional analysis covers

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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 Ultra-high Refractive Index Lens Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultra-high Refractive Index Lens Material, with price, sales quantity, revenue, and global market share of Ultra-high Refractive Index Lens Material from 2021 to 2026.

Chapter 3, the Ultra-high Refractive Index Lens Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultra-high Refractive Index Lens Material breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Refractive Index and by Application, with sales market share and growth rate by Refractive Index, by Application, from 2021 to 2032.

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 2021 to 2026.and Ultra-high Refractive Index Lens Material market forecast, by regions, by Refractive Index, and by Application, with sales and revenue, from 2027 to 2032.

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

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analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultra-high Refractive Index Lens Material.

Chapter 14 and 15, to describe Ultra-high Refractive Index Lens Material sales channel, distributors, customers, research findings and conclusion.

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