

# Global Trichromatic Phosphor for Lamps 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 Trichromatic Phosphor for Lamps market size was valued at US\$ 94.15 million in 2025 and is forecast to a readjusted size of US\$ 155 million by 2032 with a CAGR of 7.2% during review period.

In 2025, global sales of Trichromatic Phosphor for Lamps reached approximately 15 k tons, with an average market price of about USD 6100 per ton, an annual production capacity of roughly 20 k tons, and an industry-average gross margin of approximately 20%.

Trichromatic Phosphor for Lamps are a class of rare-earth phosphor systems that emit narrow-band red, green, and blue primary colors, which are blended in defined ratios to produce high-color-rendering white light. Typical formulations use rare-earth-activated inorganic hosts, such as Eu<sup>2+</sup>-activated red phosphates, Tb<sup>3+</sup> or Ce<sup>3+</sup>/Tb<sup>3+</sup>-activated green silicates/borates, and blue aluminates or silicates such as BaMgAl<sub>10</sub>O<sub>17</sub>:Eu<sup>2+</sup>. The different color powders are coated on the inner wall of fluorescent tubes or CFL bulbs; when excited by ultraviolet radiation from mercury discharge, they emit visible light, enabling high luminous efficacy, high color rendering index (CRI), and tunable correlated color temperature. These materials are widely used in conventional fluorescent lighting and some backlighting applications.

On the upstream side, Trichromatic Phosphor for Lamps rely heavily on rare-earth raw materials and inorganic chemical feedstocks, including rare-earth oxides such as yttrium oxide, europium oxide, and terbium oxide, as well as inorganic salts and host materials containing aluminum, barium, calcium, magnesium, and others. Key players usually master powder synthesis, calcination, coating, and particle-size control technologies.

The midstream segment is composed of specialized phosphor manufacturers and some vertically integrated rare-earth groups that develop full product lines and supply lamp and light-source makers. Downstream, consumption is driven mainly by fluorescent tube, compact fluorescent lamp (CFL), specialty lamp, and certain backlight module manufacturers; their trichromatic phosphor usage is directly linked to the installed base and replacement demand for conventional fluorescent lighting worldwide. With general lighting shifting to LEDs, ongoing consumption is now concentrated in maintenance of legacy installations, industrial applications, and specialized lighting niches.

The Trichromatic Phosphor for Lamps market today sits in a classic 'mature but still strategic' position within the broader lighting materials landscape. Demand has structurally declined as LED lighting replaces traditional fluorescent and compact fluorescent lamps, where tri-band phosphors were the core enabling material for high-CRI white light, and this is reflected in shrinking new-build lamp production and growing emphasis on cost control and recycling of rare-earth-containing powders. At the same time, the segment remains technically important: tri-phosphor formulations and know-how continue to be used in legacy fluorescent infrastructure, specialty and industrial lamps, and as a knowledge base feeding into next-generation phosphor development for LEDs and displays. The market structure is highly concentrated, dominated by a few global rare-earth and lighting-material suppliers with strong IP portfolios, integrated access to rare-earth oxides, and close ties to major lamp manufacturers, while smaller regional players focus on toll processing, niche formulations, and serving local maintenance markets.

This report is a detailed and comprehensive analysis for global Trichromatic Phosphor for Lamps 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 Trichromatic Phosphor for Lamps market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Trichromatic Phosphor for Lamps market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Trichromatic Phosphor for Lamps market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Trichromatic Phosphor for Lamps market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Trichromatic Phosphor for Lamps

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 Trichromatic Phosphor for Lamps 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 NICHIA, Mitsubishi Chemical Corporation, Intematix, TOKYO KAGAKU KENKYUSHO, Nemoto Lumi-Materials, Phosphor Technology, Edgetech Industries, China Rare Earth Holdings, KanHoo, Guangzhou Zhujiang Optonix New Material (Xiamen Tungsten), etc.

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

### **Market Segmentation**

Trichromatic Phosphor for Lamps market is split by Type and by Application. For the period 2021-2032, 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

Red Powder

Green Powder

Blue Powder

Mixed Powder

#### Market segment by Matrix

Phosphate-based

Aluminate-based

Silicate-based

Borate

#### Market segment by Technologies

Single-Phase White Phosphors

Thermal-Optical Coupling

#### Market segment by Application

LED Lighting

Energy-Saving Lamps

Others

## Major players covered

NICHIA

Mitsubishi Chemical Corporation

Intematix

TOKYO KAGAKU KENKYUSHO

Nemoto Lumi-Materials

Phosphor Technology

Edgetech Industries

China Rare Earth Holdings

KanHoo

Guangzhou Zhujiang Optonix New Material (Xiamen Tungsten)

Grirem Advanced Materials

Shandong Gemsung Technology

Jiangsu Bree Optronics

## 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 Trichromatic Phosphor for Lamps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Trichromatic Phosphor for Lamps, with price, sales quantity, revenue, and global market share of Trichromatic Phosphor for Lamps from 2021 to 2026.

Chapter 3, the Trichromatic Phosphor for Lamps competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Trichromatic Phosphor for Lamps 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 Type and by Application, with sales market share and growth rate by Type, 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 Trichromatic Phosphor for Lamps market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Trichromatic Phosphor for Lamps.

Chapter 14 and 15, to describe Trichromatic Phosphor for Lamps sales channel, distributors, customers, research findings and conclusion.

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