

Global Red Phosphor 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 Red Phosphor Material market size was valued at US\$ 814 million in 2025 and is forecast to a readjusted size of US\$ 1539 million by 2032 with a CAGR of 9.5% during review period.

Red Phosphor Material refers to a class of luminescent materials that emit red light when excited by a light source (typically blue or ultraviolet light). These materials are commonly used in LED lighting and display technologies to convert short-wavelength light into red visible light, improving color rendering and enabling full-spectrum white light generation. Typical compositions include rare-earth doped compounds such as nitrides (e.g., Eu²⁺-doped nitrides) and oxynitrides. In 2025, global Red Phosphor Material production reached approximately 405,900 kg, with an average global market price of around US\$ 1,950 per kg. Annual production capacity is 450,000 kg. Gross Profit Margin 37.5%. The red phosphor material industry chain is highly concentrated and technology-driven. Upstream consists of rare earth suppliers (especially Eu₂O₃) and advanced chemical precursors used for nitride and oxynitride synthesis. Midstream players focus on phosphor formulation and high-temperature solid-state reaction processes, where companies such as Nichia, Mitsubishi Chemical, and Denka dominate. Downstream applications are mainly LED lighting, display backlighting, automotive lighting, and horticulture lighting systems, where phosphor is embedded into LED packages or optical modules. Red phosphor materials sit at a critical junction of LED efficiency and color quality, making them a foundational component in high-performance lighting and advanced display systems. The market is characterized by strong technological barriers, tight supply of rare-earth materials, and continuous demand upgrades driven by Mini-LED and automotive lighting. Future development is expected to shift toward higher efficiency, narrower emission spectra, and improved

thermal stability, supporting more energy-efficient and high-precision optical applications.

This report is a detailed and comprehensive analysis for global Red Phosphor Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Chemical System 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 Red Phosphor Material market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Red Phosphor Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Red Phosphor Material market size and forecasts, by Chemical System and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Red Phosphor Material market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Red Phosphor 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 Red Phosphor 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 Nichia Corporation, Ams Osram, Denka Company Limited, Mitsubishi Chemical Group Corporation, Sumitomo Chemical Company Limited, Shin Etsu Chemical Co Ltd, Intematix Corporation, Kasei Optonix Co Ltd, Tokuyama Corporation, Merck Kgaa, etc.

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

Market Segmentation

Red Phosphor Material market is split by Chemical System and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Chemical System, 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 Chemical System

- Nitride-based Red Phosphors

- Oxynitride-based Red Phosphors

- Oxide-based Red Phosphors

- Sulphide-based Red Phosphors

Market segment by Excitation Source

- Blue-light Excited Red Phosphors

- UV-light Excited Red Phosphors

- Electron-beam Excited Red Phosphors

Market segment by Peak Emission Wavelength

Deep Red Phosphor?>650 nm

Standard Red Phosphor?610?650 nm

Orange-Red Phosphor?590?610 nm

Market segment by Application

General Lighting

Automotive

Horticulture

Medical

Other

Major players covered

Nichia Corporation

Ams Osram

Denka Company Limited

Mitsubishi Chemical Group Corporation

Sumitomo Chemical Company Limited

Shin Etsu Chemical Co Ltd

Intematix Corporation

Kasei Optonix Co Ltd

Tokuyama Corporation

Merck Kgaa

Solvay S A

Heraeus Electronics

Heesung Materials Co Ltd

LG Innotek Co Ltd

Grirem Advanced Materials Co Ltd

Xiamen Tungsten Co Ltd

China Northern Rare Earth Group High Tech Co Ltd

China Southern Rare Earth Group Limited

Ganzhou Rare Earth Group Co Ltd

Shenghe Resources Holding Co Ltd

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 Red Phosphor Material product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Red Phosphor 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 Chemical System and by Application, with sales market share and growth rate by Chemical System, 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 Red Phosphor Material market forecast, by regions, by Chemical System, 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 Red Phosphor Material.

Chapter 14 and 15, to describe Red Phosphor Material sales channel, distributors, customers, research findings and conclusion.

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