

Global Red Phosphor Material Market Growth 2026-2032

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Abstracts

The global Red Phosphor Material market size is predicted to grow from US\$ 774 million in 2025 to US\$ 1511 million in 2032; it is expected to grow at a CAGR of 10.1% from 2026 to 2032.

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.

United States market for Red Phosphor Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Red Phosphor Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Red Phosphor Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Red Phosphor Material players cover Nichia Corporation, Ams Osram, Denka Company Limited, Mitsubishi Chemical Group Corporation, Sumitomo Chemical Company Limited, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Red Phosphor Material Industry Forecast" looks at past sales and reviews total world Red Phosphor Material sales in 2025, providing a comprehensive analysis by region and market sector of projected Red Phosphor Material sales for 2026 through 2032. With Red Phosphor Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Red Phosphor Material industry.

This Insight Report provides a comprehensive analysis of the global Red Phosphor Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Red Phosphor Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Red Phosphor Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Red Phosphor Material and breaks down the forecast by Chemical System, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Red Phosphor Material.

This report presents a comprehensive overview, market shares, and growth

opportunities of Red Phosphor Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Chemical System:

Nitride-based Red Phosphors

Oxynitride-based Red Phosphors

Oxide-based Red Phosphors

Sulphide-based Red Phosphors

Segmentation by Excitation Source:

Blue-light Excited Red Phosphors

UV-light Excited Red Phosphors

Electron-beam Excited Red Phosphors

Segmentation by Peak Emission Wavelength:

Deep Red Phosphor?>650 nm

Standard Red Phosphor?610?650 nm

Orange-Red Phosphor?590?610 nm

Segmentation by Application:

General Lighting

Automotive

Horticulture

Medical

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Red Phosphor Material market?

What factors are driving Red Phosphor Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Red Phosphor Material market opportunities vary by end market size?

How does Red Phosphor Material break out by Chemical System, by Application?

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