

Global Red Phosphor Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Red Phosphor Material market size is expected to reach \$ 1539 million by 2032, rising at a market growth of 9.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Red Phosphor Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Red Phosphor 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 Red Phosphor Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Red Phosphor Material total production and demand, 2021-2032, (kg)

Global Red Phosphor Material total production value, 2021-2032, (USD Million)

Global Red Phosphor Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Red Phosphor Material consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Red Phosphor Material domestic production, consumption, key domestic manufacturers and share

Global Red Phosphor Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Red Phosphor Material production by Chemical System, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Red Phosphor Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Red Phosphor 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Red Phosphor Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Chemical System, 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.

Global Red Phosphor Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Red Phosphor Material Market, Segmentation by Chemical System:

Nitride-based Red Phosphors

Oxynitride-based Red Phosphors

Oxide-based Red Phosphors

Sulphide-based Red Phosphors

Global Red Phosphor Material Market, Segmentation by Excitation Source:

Blue-light Excited Red Phosphors

UV-light Excited Red Phosphors

Electron-beam Excited Red Phosphors

Global Red Phosphor Material Market, Segmentation by Peak Emission Wavelength:

Deep Red Phosphor?>650 nm

Standard Red Phosphor?610?650 nm

Orange-Red Phosphor?590?610 nm

Global Red Phosphor Material Market, Segmentation by Application:

General Lighting

Automotive

Horticulture

Medical

Other

Companies Profiled:

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 Answered:

1. How big is the global Red Phosphor Material market?
2. What is the demand of the global Red Phosphor Material market?
3. What is the year over year growth of the global Red Phosphor Material market?

4. What is the production and production value of the global Red Phosphor Material market?
5. Who are the key producers in the global Red Phosphor Material market?
6. What are the growth factors driving the market demand?

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