

Global Cathode Ray Phosphor Powder Market Growth 2026-2032

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Abstracts

The global Cathode Ray Phosphor Powder market size is predicted to grow from US\$ 88.59 million in 2025 to US\$ 138 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

Cathode Ray Phosphor Powder refers to a class of luminescent inorganic materials that emit visible light when excited by high-energy electron beams (cathode rays). These powders are typically coated on the inner surfaces of vacuum tubes, such as cathode ray tubes (CRTs), to convert electron energy into visible images. Common materials include zinc sulfide (ZnS)-based phosphors doped with activators like silver (Ag), copper (Cu), or rare-earth elements to produce different emission colors (green, blue, red, etc.). In 2025, global Cathode Ray Phosphor Powder production reached approximately 14,375 tons, with an average global market price of around US\$ 6,300 per ton. Annual production capacity is 16,200 tons. Gross Profit Margin: 38%. The industry chain of cathode ray phosphor powder is highly dependent on upstream rare earth and inorganic chemical materials. Key raw materials include zinc compounds, yttrium, europium, terbium, and sulfide-based precursors, which are processed into high-purity phosphor formulations through doping, calcination, and particle engineering. Midstream manufacturers specialize in phosphor synthesis and performance tuning, while downstream demand historically comes from CRT displays, oscilloscopes, medical X-ray imaging screens, radar systems, and other electron-beam excitation devices. The cathode ray phosphor powder market has transitioned from large-scale display applications to a niche, high-reliability materials segment. While CRT-based demand has nearly disappeared, stable consumption remains in medical imaging, scientific instrumentation, and defense-related visualization systems.

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

Global key Cathode Ray Phosphor Powder players cover Nichia Corporation, Ams Osram, Merck Kgaa, Mitsubishi Chemical Group Corporation, Intematix Corporation, 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 "Cathode Ray Phosphor Powder Industry Forecast" looks at past sales and reviews total world Cathode Ray Phosphor Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Cathode Ray Phosphor Powder sales for 2026 through 2032. With Cathode Ray Phosphor Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cathode Ray Phosphor Powder industry.

This Insight Report provides a comprehensive analysis of the global Cathode Ray Phosphor Powder 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 Cathode Ray Phosphor Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cathode Ray Phosphor Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cathode Ray Phosphor Powder and breaks down the forecast by Emission Color, 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 Cathode Ray Phosphor Powder.

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

opportunities of Cathode Ray Phosphor Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Emission Color:

Green Phosphor Powder

Blue Phosphor Powder

Red Phosphor Powder

White/Multicolor Phosphor Powder

Segmentation by Luminous Efficiency:

Low Efficiency Phosphor?(Relative intensity:

Medium Efficiency Phosphor?(Relative intensity: 60 ? 120)

High Efficiency Phosphor(Relative intensity?> 120 ? 200+)

Segmentation by Decay Time / Afterglow:

Short Persistence Phosphor?

Medium Persistence Phosphor?1 ms ? 50 ms

Long Persistence Phosphor?50 ms ? 10 s

Segmentation by Application:

Consumer

Scientific & Laboratory

Medical

Military & Defense

Industrial

Others

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

Merck Kgaa

Mitsubishi Chemical Group Corporation

Intematix Corporation

Nemoto & Co., Ltd.

Phosphor Technology Ltd

Sumitomo Chemical Co., Ltd.

Showa Denko Materials Co., Ltd.

Konica Minolta, Inc.

LG Chem Ltd.

Shenyang Joinunion Chemical Technology Co., Ltd.

Dongtai Tianyuan Fluorescent Materials Co., Ltd

Suzhou Shineway Lighting Co., Ltd.

Shenzhen Mengzhi Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cathode Ray Phosphor Powder market?

What factors are driving Cathode Ray Phosphor Powder market growth, globally and by region?

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

How do Cathode Ray Phosphor Powder market opportunities vary by end market size?

How does Cathode Ray Phosphor Powder break out by Emission Color, by Application?

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