

Global Cathode Ray Phosphor Powder 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 Cathode Ray Phosphor Powder market size was valued at US\$ 93.18 million in 2025 and is forecast to a readjusted size of US\$ 142 million by 2032 with a CAGR of 6.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Cathode Ray Phosphor Powder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Emission Color 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 Cathode Ray Phosphor Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

Global Cathode Ray Phosphor Powder market size and forecasts, by Emission Color and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Cathode Ray Phosphor Powder 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 Cathode Ray Phosphor Powder

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 Cathode Ray Phosphor Powder 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,

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., etc.

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

Market Segmentation

Cathode Ray Phosphor Powder market is split by Emission Color and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Emission Color, 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 Emission Color

Green Phosphor Powder

Blue Phosphor Powder

Red Phosphor Powder

White/Multicolor Phosphor Powder

Market segment by Luminous Efficiency

Low Efficiency Phosphor?(Relative intensity: %oO% 60)

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

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

Market segment by Decay Time / Afterglow

Short Persistence Phosphor?%oO% 1 ms ? 1 ms

Medium Persistence Phosphor?1 ms ? 50 ms

Long Persistence Phosphor?50 ms ? 10 s

Market segment by Application

Consumer

Scientific & Laboratory

Medical

Military & Defense

Industrial

Others

Major players covered

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.

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 Cathode Ray Phosphor Powder product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Cathode Ray Phosphor Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Cathode Ray Phosphor Powder 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 Emission Color and by Application, with sales market share and growth rate by Emission Color, 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 Cathode Ray Phosphor Powder market forecast, by regions, by Emission Color, 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 Cathode Ray Phosphor Powder.

Chapter 14 and 15, to describe Cathode Ray Phosphor Powder sales channel, distributors, customers, research findings and conclusion.

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