

# **Chromium Nitrate Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application**

<https://marketpublishers.com/r/CDCF6BD03AA3EN.html>

Date: June 2025

Pages: 78

Price: US\$ 3,200.00 (Single User License)

ID: CDCF6BD03AA3EN

## **Abstracts**

### **Chromium Nitrate Market Summary**

#### **Introduction**

Chromium Nitrate ( $\text{Cr}(\text{NO}_3)_3$ ) is a red-purple, hygroscopic crystalline compound known for its solubility in water, acids, and alcohols, and its use in catalysts, surface treatments, and other applications like dyeing and corrosion inhibitors. The chromium nitrate industry is characterized by its role in chemical and industrial processes, driven by demand for high-performance catalysts and corrosion-resistant coatings. Its corrosive nature and color-changing properties under heat make it valuable in specialized applications. Key trends include the development of high-purity grades for catalysts, eco-friendly surface treatments, and safer handling processes due to its hazardous properties. The market is propelled by growth in chemical manufacturing and surface treatment industries, particularly in Asia and North America.

#### **Market Size and Growth Forecast**

The global Chromium Nitrate market was valued at USD 170–320 million in 2024, with an estimated CAGR of 5.0%–7.0% from 2025 to 2030, driven by demand in catalysts and surface treatments.

#### **Regional Analysis**

North America is projected to grow at a CAGR of 4.8%–6.8%, with the U.S. leading due to its chemical and automotive sectors, focusing on high-purity chromium nitrate.

Europe is expected to achieve a CAGR of 4.5%–6.5%, with Germany driving demand through its emphasis on surface treatments and catalysts.

Asia Pacific is anticipated to record the highest growth at 5.5%–7.5%, led by China, where chemical and textile industries fuel demand, with trends toward cost-effective production.

Rest of the World, particularly Brazil, is expected to grow at 4.3%–6.3%, with trends toward industrial applications.

### Application Analysis

Catalyst applications are estimated to grow at a CAGR of 5.3%–7.3%, driven by chromium nitrate's use in chemical synthesis, with trends toward high-purity formulations.

Surface treatment applications are projected to expand at 5.0%–7.0%, supported by demand in corrosion-resistant coatings, with innovations in trivalent chromium formulations.

Other applications, including dyeing and corrosion inhibitors, are anticipated to grow at 4.8%–6.8%, with advancements in eco-friendly processes.

### Key Market Players

Nippon Chemical Industrial, headquartered in Tokyo, Japan, produces chromium nitrate for catalysts and surface treatments, known for its advanced chemical solutions.

Nihon Kagaku Sangyo, based in Tokyo, Japan, offers chromium nitrate for industrial applications, focusing on high-purity manufacturing.

Oxkem, headquartered in Reading, UK, provides chromium nitrate for surface treatments, emphasizing sustainable processes.

XiaXian Yunli Chemicals Co. Ltd., based in XiaXian, China, specializes in chromium nitrate for dyeing and catalysts, known for its cost-competitive production.

### Porter's Five Forces Analysis

The threat of new entrants is moderate; moderate capital costs attract niche players, but regulatory barriers create challenges.

The threat of substitutes is moderate; alternative catalysts and coatings compete, but chromium nitrate's unique properties maintain its edge.

Buyer power is moderate; chemical and textile manufacturers negotiate pricing, but specialized applications limit leverage.

Supplier power is low; raw materials like chromium are widely available, reducing dependency.

Competitive rivalry is high; players differentiate through high-purity and eco-friendly formulations.

## **Market Opportunities and Challenges**

### **Opportunities**

Growth in chemical manufacturing drives chromium nitrate demand.

Expansion of eco-friendly surface treatments enhances market opportunities.

Emerging markets in Asia Pacific offer growth potential due to industrial growth.

### **Challenges**

Regulatory scrutiny on chromium compounds increases compliance costs.

Health and environmental concerns limit adoption in developed markets.

Competition from alternative catalysts and coatings challenges market share.

### **Growth Trend Analysis**

The Chromium Nitrate market is growing steadily, driven by demand in catalysts and

surface treatments. XiaXian Yunli Chemicals Co. Ltd. currently has a chromium nitrate capacity of 500 tons, supporting applications in catalysts and dyeing. Typical formulations for trivalent chromium blue-white passivators include chromium nitrate with components like nitric acid and oxalic acid, highlighting its role in corrosion-resistant coatings. These developments align with a projected CAGR of 5.0%–7.0% through 2030, reflecting chromium nitrate's role in chemical and industrial applications.

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