

Global Chromium Tungsten Nitride Market Growth 2026-2032

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Abstracts

The global Chromium Tungsten Nitride market size is predicted to grow from US\$ 170 million in 2025 to US\$ 282 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

Chromium Tungsten Nitride (CrWN) is an advanced transition metal nitride coating material formed by combining chromium nitride (CrN) and tungsten nitride (WN) phases, typically deposited as a thin film using physical vapor deposition (PVD) or chemical vapor deposition (CVD) techniques. It is widely valued for its high hardness, excellent wear resistance, oxidation resistance, and thermal stability, making it suitable for cutting tools, molds, aerospace components, and semiconductor equipment. The supply chain of CrWN starts upstream with raw materials such as chromium metal, tungsten powder, and nitrogen gas, along with target fabrication materials for sputtering processes. Midstream, specialized coating service providers and equipment manufacturers produce CrWN coatings through processes like magnetron sputtering or arc ion plating, often customizing compositions for performance requirements. Downstream, the coated components are integrated into industries such as automotive manufacturing, metal machining, aerospace, and electronics, where enhanced surface durability and lifespan are critical. In 2025, global Chromium Tungsten Nitride output was about 7,000 tons with 10,000 tons of capacity, average prices of USD 20,000-40,000 per ton, and gross margins around 34%.

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

Global key Chromium Tungsten Nitride players cover Ionbond (Switzerland), Oerlikon Balzers (Liechtenstein), CemeCon (Germany), voestalpine eifeler (Germany), BryCoat (USA), 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 "Chromium Tungsten Nitride Industry Forecast" looks at past sales and reviews total world Chromium Tungsten Nitride sales in 2025, providing a comprehensive analysis by region and market sector of projected Chromium Tungsten Nitride sales for 2026 through 2032. With Chromium Tungsten Nitride sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Chromium Tungsten Nitride industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Chromium Tungsten Nitride and breaks down the forecast by Type, 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 Chromium Tungsten Nitride.

This report presents a comprehensive overview, market shares, and growth opportunities of Chromium Tungsten Nitride market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Standard Hardness CrWN (20-30 GPa)

High Hardness CrWN (>30 GPa)

Segmentation by Deposition Method:

PVD CrWN

CVD CrWN

Segmentation by Application:

Metal Cutting

Mold & Die

Automotive

Aerospace

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.

Ionbond (Switzerland)

Oerlikon Balzers (Liechtenstein)

CemeCon (Germany)

voestalpine eifeler (Germany)

BryCoat (USA)

Crystallume PVD (USA)

Industrial Hard Carbon (USA)

Calico Coatings (USA)

Acree Technologies (USA)

Beamalloy Technologies (USA)

Mitsubishi Materials (Japan)

Zhuzhou Cemented Carbide (China)

Changsha Xinkang Advanced Materials (China)

Fujian Acetron New Materials (China)

Beijing Zhongnuo Advanced Material (China)

GRIKIN Advanced Material (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Chromium Tungsten Nitride market?

What factors are driving Chromium Tungsten Nitride market growth, globally and by region?

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

How do Chromium Tungsten Nitride market opportunities vary by end market size?

How does Chromium Tungsten Nitride break out by Type, by Application?

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