

Global Chromium Tungsten Nitride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chromium Tungsten Nitride market size is expected to reach \$ 289 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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%.

This report studies the global Chromium Tungsten Nitride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chromium Tungsten Nitride 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 Chromium Tungsten Nitride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chromium Tungsten Nitride total production and demand, 2021-2032, (Tons)

Global Chromium Tungsten Nitride total production value, 2021-2032, (USD Million)

Global Chromium Tungsten Nitride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Chromium Tungsten Nitride consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Chromium Tungsten Nitride domestic production, consumption, key domestic manufacturers and share

Global Chromium Tungsten Nitride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Chromium Tungsten Nitride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Chromium Tungsten Nitride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Chromium Tungsten Nitride 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 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), 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 Chromium Tungsten Nitride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Chromium Tungsten Nitride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chromium Tungsten Nitride Market, Segmentation by Type:

Standard Hardness CrWN (20-30 GPa)

High Hardness CrWN (>30 GPa)

Global Chromium Tungsten Nitride Market, Segmentation by Deposition Method:

PVD CrWN

CVD CrWN

Global Chromium Tungsten Nitride Market, Segmentation by Application:

Metal Cutting

Mold & Die

Automotive

Aerospace

Others

Companies Profiled:

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 Answered:

1. How big is the global Chromium Tungsten Nitride market?
2. What is the demand of the global Chromium Tungsten Nitride market?
3. What is the year over year growth of the global Chromium Tungsten Nitride market?
4. What is the production and production value of the global Chromium Tungsten Nitride market?
5. Who are the key producers in the global Chromium Tungsten Nitride market?
6. What are the growth factors driving the market demand?

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