

Molybdenum Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Engineering Steel, Chemicals, Electronics & Semiconductors, Aerospace, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Molybdenum Market was valued at USD 10,330.67 million in 2024 and is projected to reach USD 15,972.03 million by 2030, growing at a CAGR of 5.26% during the forecast period. Molybdenum, recognized for its high melting point, corrosion resistance, and strength, plays a critical role as an alloying agent in steel production, enhancing strength and durability. The ongoing industrialization and infrastructure boom in emerging economies is fueling the demand for high-performance steel, thereby propelling the consumption of molybdenum. The metal's widespread use in energy applications, particularly in catalysts for oil refining and components operating under extreme conditions, is further supporting market growth. Additionally, its increasing utilization in aerospace and automotive sectors, where lightweight and high-strength materials are essential, underscores its importance in modern engineering solutions. However, fluctuations in molybdenum supply and regulatory challenges related to mining activities, especially in key producing nations such as China, Chile, and the U.S., contribute to price volatility and may influence market dynamics.

Key Market Drivers

Growth in Electronic Industry

The global electronics sector's rapid growth is significantly boosting the molybdenum market. With consumer electronics revenues reaching USD 977.7 billion in 2025, molybdenum's high thermal and electrical conductivity makes it a critical material in electronic components and semiconductors. It is especially prominent in thin-film transistors (TFTs), crucial to flat-panel displays such as OLED and LCD screens. Molybdenum's thermal stability and reliability make it ideal for gate electrodes and interconnects in modern devices. Advancements in materials, like molybdenum disulfide (MoS₂), are enabling new applications in flexible

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electronics and wearables, reinforcing the metal's value in next-generation technologies.

Key Market Challenges

Volatility in Raw Material Prices

Price instability of raw materials, especially molybdenite ore, remains a major hurdle for the global molybdenum market. These fluctuations stem from geopolitical tensions, environmental regulations, and operational disruptions in top-producing countries. Supply chain uncertainties and regulatory hurdles affecting mining operations can sharply impact molybdenum pricing and availability. Such volatility hampers long-term planning and investment for both producers and end-users, leading to uncertainty in procurement and production strategies.

Key Market Trends

Growing Focus on Sustainability

Sustainability is becoming a central theme in the molybdenum market, driven by its applications in clean and energy-efficient technologies. Molybdenum's role in renewable energy solutions, including solar panels, wind turbines, and hydrogen fuel cells, is gaining prominence. It supports the manufacturing of thin-film photovoltaic cells and other components vital for the transition to a low-carbon economy. Major producers are emphasizing responsible sourcing and aligning with global decarbonization efforts, thereby enhancing the material's appeal in environmentally focused industries.

Key Market Players

- [] Grupo Mexico
- [] Codelco
- [] Climax Molybdenum Company
- [] Teck Resources Limited
- [] Rio Tinto
- [] Antofagasta PLC
- [] KGHM Polska Miedz S.A.
- [] Jiangxi Copper Corporation
- [] Jinduicheng Molybdenum Co. Ltd
- [] CMOC Group Limited

Report Scope

In this report, the Global Molybdenum Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Molybdenum Market, By Sales Channel:

- [] Direct
- [] Indirect

Molybdenum Market, By End Use:

- [] Engineering Steel
- [] Chemicals
- [] Electronics & Semiconductors
- [] Aerospace
- [] Others

Molybdenum Market, By Region:

- [] North America
 - o [] United States
 - o [] Canada
 - o [] Mexico
- [] Europe
 - o [] France
 - o [] United Kingdom
 - o [] Italy

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- o India
- o Japan
- o Australia
- o South Korea
- South America
- o Brazil
- o Argentina
- o Colombia
- Middle East & Africa
- o South Africa
- o Saudi Arabia
- o UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Molybdenum Market.

Available Customizations:

Global Molybdenum Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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