

Molybdenum Market to Reach USD 548 Billion by 2035, Driven by Innovation, Sustainability, and Strategic Industry Shifts

The UK industry is grow at a 4.6% CAGR from 2025 to 2035, driven by demand for the metal in steel, energy and high-tech sectors despite limited domestic output.

NEWARK, DE, UNITED STATES, August 6, 2025 /EINPresswire.com/ -- The global [molybdenum market](#) is entering a transformative era of expansion and innovation. Forecasted to grow from USD 346.3 billion in 2025 to an estimated USD 548 billion by 2035, this USD 200+ billion opportunity reflects a compelling compound annual growth rate (CAGR) of 4.7%. For global manufacturers in construction, energy, electronics, and aerospace, the decade ahead promises not just growth—but evolution powered by performance materials like molybdenum.



A Metal That Meets the Moment

From skyscrapers to semiconductors, molybdenum is no longer just an alloying agent—it is an industrial solution. Widely applied across high-demand sectors including automotive, chemical, construction, and nuclear energy, this high-strength, corrosion-resistant metal is now at the forefront of sustainable manufacturing and green energy infrastructure.

Its rising importance is closely tied to how it performs: high melting point, exceptional strength, and superior chemical resistance. These properties are helping global industries combat core challenges—durability, efficiency, environmental compliance, and material longevity.

Shifting Market Forces: From Steel to Sustainability

Between 2020 and 2024, the molybdenum market experienced moderate gains, driven primarily by demand from the steel and electronics sectors. But the upcoming decade brings a new

playbook. Molybdenum's application in electric vehicles, solar panels, and hydrogen energy systems is shaping the next generation of green technologies.

Manufacturers integrating molybdenum into EV platforms, renewable power systems, and hydrogen fuel infrastructure will benefit from its unparalleled thermal and mechanical capabilities, enabling performance, durability, and reliability across extreme environments.

Future-Ready Applications: Serving Modern Industry

By 2025, stainless steel will account for approximately 15.75% of total molybdenum demand. Aerospace-grade super alloys will follow with 9.45%, providing the backbone for jet engines, turbines, and defense components. This demand is further accelerated by global urbanization, clean energy mandates, and advanced manufacturing needs.

End-use industries like chemicals and petrochemicals are leading consumers, projected to capture 15.75% of market share by 2025. These sectors rely on molybdenum-based catalysts for efficiency and cleaner processing. Automotive follows closely behind with a 10.50% share, where the metal's strength-to-weight benefits align with fuel economy targets and electric vehicle goals.

The Regional Pulse: Who's Leading the Charge?

China leads the world in both production and consumption, projected to grow at a CAGR of 6.5% through 2035. Domestic mining, infrastructure development, and advanced manufacturing continue to drive demand. The USA market, growing at 5.3% CAGR, sees widespread use in power infrastructure and aerospace, with leading players like Freeport-McMoRan expanding operations and refining capacity.

Germany, South Korea, and Japan are also prominent in adopting molybdenum-based solutions, spanning from high-strength steel production to semiconductors and hydrogen energy development. The UK, despite limited domestic output, is strengthening its foothold with advanced recycling and precision applications in engineering and energy.

Overcoming Industry-Wide Challenges

For manufacturers, the metal's growing value comes with complexity. Price fluctuations, geopolitical restrictions, and environmental regulations continue to affect supply chains and cost structures. China's February 2025 export restriction on select molybdenum powders has already exposed supply vulnerabilities.

To address this, companies are diversifying sourcing, enhancing recycling strategies, and adopting multi-metal extraction techniques. Organizations like BHP Billiton and Compania Minera Dona Ines De Collahuasi are maximizing returns by co-producing molybdenum with

copper, ensuring supply resilience and cost-efficiency.

Reinforcing the Value Chain: Strategic Stakeholder Moves

Distributors are focusing on assured supply, quality assurance, and timely delivery, while end users seek eco-friendly innovation. Aerospace, electronics, and energy industries are actively investing in molybdenum-based solutions that align with long-term sustainability and performance goals.

Producers such as ArcelorMittal, POSCO, and ThyssenKrupp influence molybdenum demand through high-volume stainless steel manufacturing. In super alloy production, the growth of companies like Boeing, Rolls-Royce, and General Electric ensures consistent application in aerospace and defense.

Leaders Shaping the Competitive Landscape

The competitive frontier is ruled by industry giants, with Freeport-McMoRan Inc. commanding a 20-24% market share, followed by Grupo México (16-20%) and China Co., Ltd. (12-16%). These companies are not only investing in production but also pioneering sustainable mining, strategic stockpiling, and technological integration.

Thompson Creek Metals is enhancing low-cost extraction and processing, while Antofagasta plc is scaling up environmentally responsible mining aligned with global ESG standards. Meanwhile, Jinduicheng Co., Ltd. and American CuMo Mining Corporation are expanding their role in the global supply chain through innovation and strategic alliances.

Request Molybdenum Market Draft Report:

<https://www.futuremarketinsights.com/reports/sample/rep-gb-5643>

For more on their methodology and market coverage, visit

<https://www.futuremarketinsights.com/about-us>.

What This Means for Manufacturers

The next ten years are critical for manufacturers to adapt to materials that serve performance and sustainability. Molybdenum offers a solution-rich pathway for companies that are:

- Scaling EV and clean energy production
- Upgrading industrial durability and corrosion resistance
- Optimizing heat management in electronics
- Modernizing construction and infrastructure components
- Investing in high-strength, lightweight automotive solutions

With global policies emphasizing clean technologies and energy efficiency, manufacturers that integrate molybdenum into their design and production workflows will position themselves as leaders in resilient, future-ready operations.

Related Insights from Future Market Insights (FMI)

Molybdenum-99 Market - <https://www.futuremarketinsights.com/reports/molybdenum-99-market>

Molybdenum Disilicide Market - <https://www.futuremarketinsights.com/reports/molybdenum-disilicide-market>

Molybdenum Disulfide Market - <https://www.futuremarketinsights.com/reports/molybdenum-disulfide-market>

Editor's Note:

As global industries strive for durability and efficiency, molybdenum emerges as a critical enabler in steel and petrochemical applications. This report offers a forward-looking perspective on the market's trajectory from 2025 to 2035. Manufacturers and stakeholders will find valuable insights to navigate evolving demands and capitalize on emerging opportunities.

Rahul Singh
Future Market Insights Inc.
+1 347-918-3531
[email us here](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/837135577>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.