

Tungsten Market Expands Amid Strategic Demand, Green Tech Growth, and Supply Chain Localization | DataMIntelligence

Tungsten Market grows with defense, EVs, and green tech demand, driven by strategic innovations, recycling, and global supply chain shifts.

AUSTIN, TX, UNITED STATES, August 1, 2025 /EINPresswire.com/ -- [Tungsten Market](#) is witnessing accelerating growth due to increasing demand from aerospace, defense, electronics, automotive, and mining industries where extreme durability, high melting points, and superior hardness are

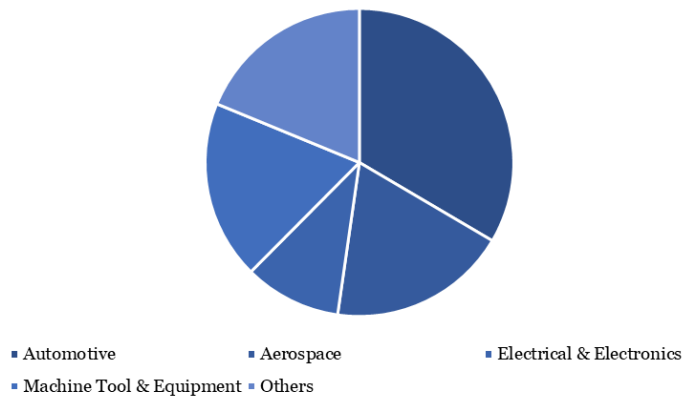
critical. Its irreplaceable role in manufacturing hard metals, superalloys, and energy-efficient technologies coupled with a rising need for critical raw materials drives its global adoption. The market is also supported by strategic government initiatives to secure rare earth and critical

“

Tungsten's unmatched hardness and heat resistance make it essential in today's high-performance world from aerospace and defense to electronics and next-gen energy applications”

DataM Intelligence

Global Tungsten Market, By Application (%), 2024



Tungsten Market By Application

minerals supply chains. With expanding applications in renewable energy storage, radiation shielding, and electric vehicles, tungsten continues to emerge as a cornerstone material for future-facing technologies.

Download Latest Sample Report :

<https://www.datamintelligence.com/download-sample/tungsten-market>

Tungsten Market Latest Innovations and Technological Developments :-

July 2025 – ChinaTungsten Launches Eco-Friendly Powder Metallurgy Line

ChinaTungsten unveiled a new production line using low-emission powder metallurgy processes to meet tightening environmental regulations while improving tungsten carbide material

performance for mining and oilfield tools.

June 2025 – Umicore Develops Nano-Tungsten for Quantum Computing
Belgium-based Umicore N.V. developed a tungsten-based nanostructure aimed at enhancing conductivity and thermal stability in quantum computing chips, enabling more reliable performance at cryogenic temperatures.

May 2025 – Global Tungsten & Powders Unveils Recyclable Alloy Technology

GTP introduced a recyclable tungsten alloy with 20% enhanced wear resistance and 30% lower carbon footprint, targeting aerospace and defense components with circular economy goals.

April 2025 – Nippon Tungsten Expands Additive Manufacturing Portfolio

Nippon Tungsten Co., Ltd. expanded its 3D printing capabilities with a new grade of spherical tungsten powder designed for additive manufacturing in high-temperature environments such as gas turbines.

Market Mergers and Acquisitions

China Molybdenum Co. Ltd. finalized its acquisition of a majority stake in a Southeast Asian tungsten mine in Q2 2025, strengthening its vertical integration and securing upstream resources.

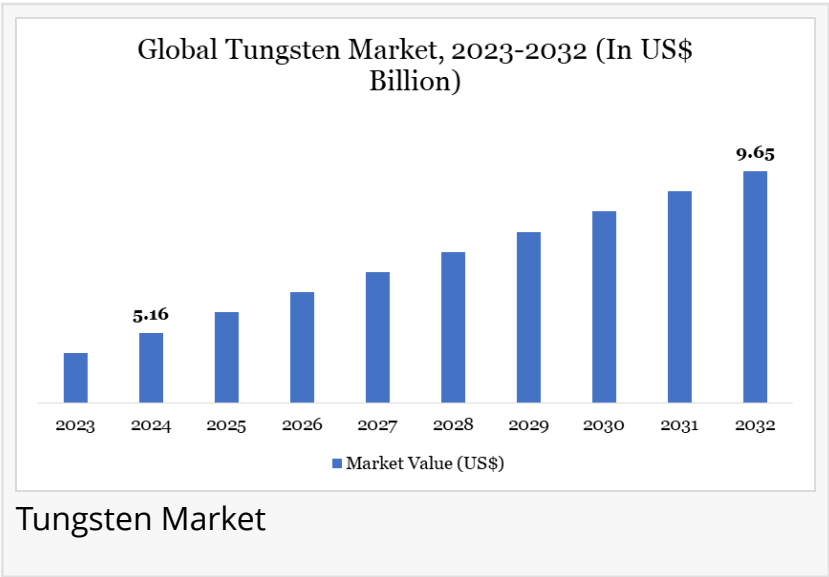
Xiamen Tungsten Co., Ltd. acquired a 49% share in a South African exploration company to diversify its resource base and mitigate risks related to China-centric supply chains.

Almonty Industries Inc. entered a strategic merger with a German tungsten refining firm to localize processing and support the EU’s critical raw materials strategy.

Tungsten Market Overview and Growth Forecast :

The Tungsten Market reached USD 5.16 billion in 2024 and is expected to grow to USD 9.65 billion by 2032, exhibiting a CAGR of 8.14% from 2025 to 2032. The market’s sustained momentum is attributed to its unique physical properties, limited substitution, and supply risks that encourage recycling and investment in exploration projects.

Tungsten Market Emerging Opportunities :-



EV and Battery Technologies: Tungsten's high-density and thermal management properties make it a candidate for improving EV battery performance and heat dissipation.

Medical Radiology and Cancer Treatment: The element's radiation shielding capacity is finding growing use in cancer diagnostics and radiotherapy machines.

Space Exploration: As aerospace materials shift to ultra-reliable components, tungsten-based superalloys are in demand for rocket nozzles and propulsion systems.

Defense Sector: With geopolitical tensions rising, tungsten is prioritized for armor-piercing munitions and high-impact resistant vehicle armor.

Green Manufacturing: The focus on recyclable materials is spurring demand for tungsten alloys that can be reused without degradation in hardness or strength.

Tungsten Market Key Players :-

China Minmetals Non-Ferrous Metals Co., Ltd.

China Molybdenum Co. Ltd.

ChinaTungsten

Jiangxi Tungsten Holding Group Co., Ltd.

Jiangxi Yaosheng Tungsten

Xiamen Tungsten Co., Ltd.

Nippon Tungsten Co., Ltd.

Umicore N.V.

Global Tungsten & Powders

Almonty Industries Inc.

These companies are leading efforts in mining sustainability, value-added manufacturing, tungsten recycling technologies, and supply chain de-risking.

Tungsten Market Segmentation :-

By Form

Tungsten Concentrate
Ammonium Paratungstate (APT)
Ferro-Tungsten
Tungsten Powder
Tungsten Carbide

By Application

Hard Metals
Alloys
Mill Products
Electrical and Electronics
Chemical Applications
Others (Medical, Defense)

By End-Use Industry

Automotive
Aerospace & Defense
Mining & Drilling
Electronics & Semiconductors
Healthcare
Energy

By Region

North America
Europe
Asia-Pacific
Latin America
Middle East & Africa

Latest News of USA

In July 2025, the U.S. Department of Energy added tungsten to its updated list of "strategic and critical materials" in response to rising defense and clean energy requirements. A federal initiative was announced to boost tungsten recycling from obsolete defense equipment and electronics, with Global Tungsten & Powders selected as a lead technology partner. Additionally, Almonty Industries expanded its North American refining footprint, aligning with the Biden administration's push to reduce dependence on Chinese tungsten.

Latest News of Japan

As of June 2025, Nippon Tungsten Co., Ltd. announced a partnership with Kyoto University to develop advanced tungsten-based ceramics for extreme-temperature environments in nuclear fusion projects. Japan's Ministry of Economy, Trade and Industry (METI) also allocated new funding for securing critical mineral imports, including tungsten, from diversified suppliers like Australia and Mongolia. Furthermore, Japan's largest electronics manufacturer has begun pilot-scale trials of tungsten microcomponents for advanced chip packaging.

Conclusion

The Tungsten Market is positioned at the intersection of strategic industrial necessity and advanced technological innovation. As industries like defense, aerospace, EVs, and electronics face rising performance and sustainability demands, tungsten's exceptional material properties become increasingly vital. With its high resistance to heat and wear, growing potential in nanotechnology and green energy, and increasing governmental focus on supply chain resilience, the global tungsten industry is set to play a pivotal role in the next industrial transformation. Forward-looking investments, innovations in processing and recycling, and strategic collaborations across regions will shape the market's competitive landscape through 2032 and beyond.

Unlock 360° Market Intelligence with DataM Subscription Services:

<https://www.datamintelligence.com/reports-subscription>

Power your decisions with real-time competitor tracking, strategic forecasts, and global investment insights all in one place.

- Competitive Landscape
- Sustainability Impact Analysis
- KOL / Stakeholder Insights
- Unmet Needs & Positioning, Pricing & Market Access Snapshots
- Market Volatility & Emerging Risks Analysis
- Quarterly Industry Report Updated
- Live Market & Pricing Trends
- Import-Export Data Monitoring
- Consumer Behavior & Demand Analysis

Have a look at our Subscription Dashboard:

<https://www.youtube.com/watch?v=x5oEiqEqTWg>

Browse more reports :

[Rare Earth Metals Market](#)

[Neodymium Iron Boron Market](#)

Sai Kumar

DataM Intelligence 4market Research LLP

+1 877-441-4866

[email us here](#)

Visit us on social media:

[LinkedIn](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/836116280>

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.