

TUNGSTEN

(Data in metric tons, tungsten content, unless otherwise specified)

Domestic Production and Use: Tungsten has not been mined commercially in the United States since 2015. There were seven U.S. companies that have the capability to convert tungsten concentrates, ammonium paratungstate (APT), tungsten oxide, and (or) scrap to tungsten metal powder, tungsten carbide powder, and (or) tungsten chemicals. An estimated 60% of the tungsten consumed in the United States was used in cemented carbide parts for cutting and wear-resistant applications, primarily in the construction, metalworking, mining, and oil- and gas-drilling industries. The remainder was used to make various alloys and specialty steels; electrodes, filaments, wires, and other components for electrical, electronic, heating, lighting, and welding applications; and chemicals for various applications.

Salient Statistics—United States:	2021	2022	2023	2024	2025^e
Production:					
Mine	—	—	—	—	—
Secondary	W	W	W	W	W
Imports for consumption:					
Ores and concentrates	1,600	2,130	1,640	1,550	1,700
Other forms ¹	10,500	12,200	10,000	8,730	10,000
Exports:					
Ores and concentrates	441	614	1,510	1,410	1,400
Other forms ²	2,970	3,680	3,180	3,480	3,300
Shipments from Government stockpile: ³					
Concentrate	1,030	689	NA	NA	NA
Other forms	93	—	NA	NA	NA
Consumption:					
Reported, concentrate	W	W	W	W	W
Apparent, ⁴ all forms	W	W	W	W	W
Price, ⁵ concentrate, average in-warehouse Rotterdam, dollars per dry metric ton unit of tungsten trioxide ⁶	225	275	258	252	380
Stocks, industry, concentrate and other forms, yearend	W	W	W	W	W
Net import reliance ⁷ as a percentage of apparent consumption	>50	>50	>50	>50	>50

Recycling: The estimated quantity of secondary tungsten produced and the amount consumed from secondary sources by processors and end users in 2025 were withheld to avoid disclosing company proprietary data.

Import Sources (2021–24): Ores, concentrates, and other forms:¹ China,⁸ 26%; Germany, 14%; Bolivia, 8%; Vietnam, 8%; and other, 44%.

Tariff:	Item	Number	Normal Trade Relations 12–31–25
	Ores	2611.00.3000	Free.
	Concentrates	2611.00.6000	37.5¢/kg on tungsten content.
	Tungsten oxides	2825.90.3000	5.5% ad valorem.
	Ammonium tungstates	2841.80.0010	5.5% ad valorem.
	Tungsten carbides	2849.90.3000	5.5% ad valorem.
	Ferrotungsten and ferrosilicon tungsten	7202.80.0000	5.6% ad valorem.
	Tungsten powders	8101.10.0000	7% ad valorem.
	Tungsten waste and scrap	8101.97.0000	2.8% ad valorem.

Depletion Allowance: 22% (domestic), 14% (foreign).

Government Stockpile:⁹

Material	FY 2025		FY 2026	
	Potential acquisitions	Potential disposals	Potential acquisitions	Potential disposals
Ores and concentrates	—	499	NA	NA
Tungsten	2,041	—	NA	NA

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Events, Trends, and Issues: China continued to be the world's leading producer, importer, and consumer of tungsten concentrates. China's consumption and imports increased significantly in 2025. At the end of 2024, the United States, under section 301(b) of the Trade Act of 1974, increased tariffs to 50% on several tungsten products from China, and in February 2025 China implemented new export controls on selected tungsten items. As a result, prices rose sharply throughout 2025. Rotterdam prices increased from \$266 to \$551 per metric ton unit for 65% concentrate and from \$331 to \$675 per metric ton unit for APT. World mine production increased, especially from the start of production at the Boguty deposit in Kazakhstan. In Canada and the United States, multiple projects received awards under the Defense Production Act, Title III, including projects in Nevada, New Brunswick, and Yukon. In October, a joint venture between Kazakhstan and the United States to develop tungsten resources was announced.

World Mine Production and Reserves: Production in 2024 for Russia was revised significantly based on a Government report. Reserves for China and Vietnam were revised based on Government reports.

	Mine production ^e		Reserves ¹⁰
	2024	2025	
United States	—	—	NA
Australia	920	1,000	¹¹ 570,000
Austria	840	840	10,000
Bolivia	1,700	1,700	NA
China	67,000	67,000	2,500,000
Kazakhstan	—	2,400	NA
Korea, North	1,900	2,000	29,000
Portugal	650	700	3,400
Russia	1,500	2,000	400,000
Rwanda	1,300	1,300	NA
Spain	700	800	66,000
Vietnam	3,400	3,000	170,000
Other countries	<u>1,700</u>	<u>2,400</u>	<u>950,000</u>
World total (rounded)	82,000	85,000	>4,700,000

World Resources:¹⁰ World tungsten resources are geographically widespread. China ranked first in the world in tungsten resources and reserves. Significant tungsten resources have been identified on every continent except Antarctica.

Substitutes: Potential substitutes for cemented tungsten carbides include cemented carbides based on molybdenum carbide, niobium carbide, or titanium carbide; ceramics; ceramic-metallic composites (cermets); and tool steels. Most of these options reduce rather than replace the amount of tungsten used. Potential substitutes for other applications are as follows: molybdenum for certain tungsten mill products; molybdenum steels for tungsten steels, although most molybdenum steels still contain tungsten; lighting based on carbon nanotube filaments, induction technology, and light-emitting diodes for lighting based on tungsten electrodes or filaments; depleted uranium or lead for tungsten or tungsten alloys in applications requiring high density or the ability to shield radiation; and depleted uranium alloys or hardened steel for cemented tungsten carbides or tungsten alloys in armor-piercing projectiles. In some applications, substitution would result in increased cost or a loss in product performance.

^eEstimated. NA Not available. W Withheld to avoid disclosing company proprietary data. — Zero.

¹Includes ammonium and other tungstates; ferrotungsten; tungsten carbide powders; tungsten metal powders; tungsten oxides, chlorides, and other tungsten compounds; unwrought tungsten; wrought tungsten forms; and tungsten waste and scrap.

²Includes ammonium and other tungstates, ferrotungsten, tungsten carbide powders, tungsten metal powders, unwrought tungsten, wrought tungsten forms, and tungsten waste and scrap.

³Defined as change in total inventory from prior yearend inventory. If negative, increase in inventory. Beginning in 2023, Government stock changes no longer available.

⁴Defined for 2021–22 as mine production + secondary production + imports – exports ± adjustments for Government and industry stock changes. Beginning in 2023, Government stock changes no longer included.

⁵Source: Argus Media group, Argus Tungsten Analytics.

⁶A metric ton unit of tungsten trioxide contains 7.93 kilograms of tungsten.

⁷Defined for 2021–22 as imports – exports ± adjustments for Government and industry stock changes. Beginning in 2023, Government stock changes no longer included.

⁸Includes Hong Kong.

⁹See Appendix B for definitions. For fiscal year 2026, the Annual Materials Plan was not released.

¹⁰See Appendix C for resource and reserve definitions and information concerning data sources.

¹¹For Australia, Joint Ore Reserves Committee-compliant or equivalent reserves were 220,000 tons.