

Mineral Industry Surveys

For information, contact:

Désirée E. Polyak, Molybdenum Commodity Specialist
National Minerals Information Center
Telephone: (703) 648-4909
Email: dpolyak@usgs.gov

Michael J. Rose (Data)
Telephone: (703) 648-7931
Email: mrose@usgs.gov

Internet: <https://www.usgs.gov/centers/national-minerals-information-center/mineral-industry-surveys>

MOLYBDENUM IN DECEMBER 2024

Domestic production of molybdenum in concentrate in December 2024 increased by 3% compared with the output of the previous month and increased 4% compared with the output in December 2023. Domestic production of molybdenum in concentrate was 34,000 metric tons (t) in both 2023 and 2024 (fig. 1, table 1).

In 2024, exports of molybdenum ore and concentrates (both roasted and unroasted) totaled approximately 45,800 t (molybdenum content) with 50% of the quantity going to the Netherlands (table 2). In 2024, U.S. imports of molybdenum ore and concentrates (both roasted and unroasted) totaled approximately 14,700 t (molybdenum content), a 9% decrease compared with 16,200 t imported in 2023 (table 4).

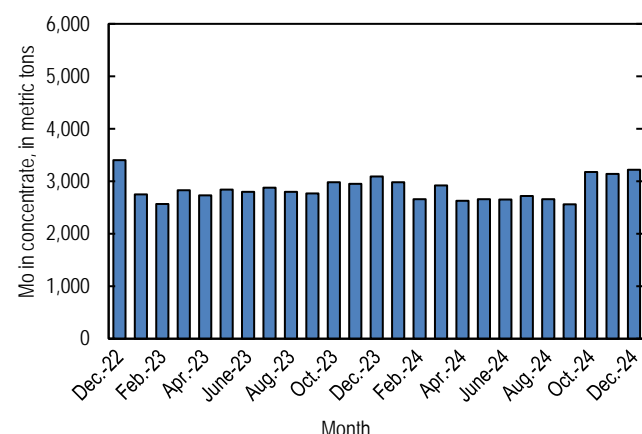


Figure 1. Monthly domestic production of molybdenum (Mo) in concentrate from December 2022 through December 2024 (may include revisions to previously published data).

Prices

According to Argus Non-Ferrous Markets, the monthly price range for U.S. ferromolybdenum (FeMo), 65% molybdenum content, was \$23.550 to \$24.000 per pound of molybdenum content in December 2024 compared with \$23.750 to \$24.250 per pound in November 2024. FeMo, 65–70% molybdenum content, monthly prices in Europe ranged from \$50.000 to \$51.000 per kilogram (\$22.680 to \$23.133 per pound) of

molybdenum content in December 2024 compared with \$50.000 to \$52.000 per kilogram (\$22.680 to \$23.587 per pound) in November 2024. U.S. molybdic oxide (MoO_3) prices, 57% molybdenum content, ranged from \$21.500 to \$22.000 per pound of molybdenum content in December 2024 compared with \$21.700 to \$22.500 per pound of molybdenum content in November 2024 (fig. 2).

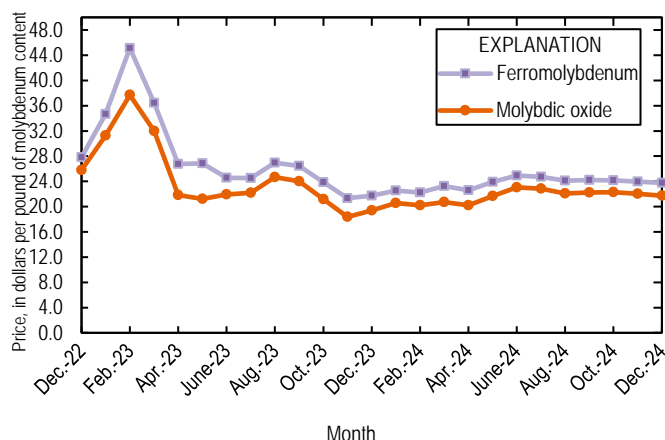


Figure 2. Average monthly prices for U.S. ferromolybdenum and molybdic oxide from December 2022 through December 2024. Source: Argus Media, Argus Non-Ferrous Markets.

A worksheet has been added to the Excel table files that includes a button to remove text and numerical footnotes from data cells. This will allow users to only have numbers in data cells. Please see the worksheet titled *RemoveTextButton* for instructions in how to use the tool. Note: you must download the excel file to use the tool.

List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to <https://www.usgs.gov/centers/national-minerals-information-center/minerals-information-publication-list-services>.

Table1. U.S. Salient molybdenum concentrate statistics.
 [Data are rounded to no more than three significant digits; may not add to totals shown. Table includes annual or quarterly published data from Freeport-McMoran Inc. (2023–2024) that has been adjusted by the USGS to reflect estimated monthly data. Data are in metric tons, molybdenum content. Revised data are marked with a superscript “r” ¹

Period	Production	Shipments ^{1,2}
2023		
January	2,750	2,610
February	2,570	2,570
March	2,830	2,900
April	2,730	2,720
May	2,840	2,860
June	2,800	2,790
July	2,880	2,850
August	2,800	2,830
September	2,770	2,760
October	2,980	2,970
November	2,950	2,910
December	3,090	3,100
January–December	34,000	33,900
2024		
January	2,980 ^r	2,980 ^r
February	2,660 ^r	2,730 ^r
March	2,920 ^r	2,880 ^r
April	2,630	2,640
May	2,660	2,670
June	2,650	2,590
July	2,720	2,690
August	2,660	2,750
September	2,560	2,510
October	3,180 ^r	3,210 ^r
November	3,140 ^r	3,080 ^r
December	3,220	3,170
January–December	34,000	33,900

¹As reported by producers.

²Shipments include sales to domestic customers, sales for export, and transfers to other company plants.

Table 2. U.S. exports of molybdenum ores and concentrates (including roasted and unroasted concentrates). By country or locality.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in kilograms, molybdenum content. Source: U.S. Census Bureau.]

Country or locality	2023			2024	
	January– December	December	November	December	January– December
Belgium	875,000	115,000	31,900	72,500	1,150,000
Brazil	219,000	6,440	26,400	197	449,000
Canada	871,000	38,600	36,300	36,900	627,000
Chile	1,460,000	132,000	13,300	65,400	608,000
China	1,870,000	0	240,000	199,000	3,580,000
Czechia	0	0	0	0	217
Ecuador	741	0	0	0	1,090
France	38,700	0	0	395	1,370
Germany	181	0	0	0	353
India	351,000	23,500	12,100	60,700	215,000
Italy	0	0	0	0	10,700
Japan	3,280,000	440,000	364,000	383,000	3,010,000
Korea, Republic of	533,000	63,300	58,100	67,600	741,000
Latvia	0	0	0	0	2,120
Lithuania	0	0	0	0	6,710
Mexico	92,900	0	79,400	123,000	536,000
Netherlands	29,500,000	1,770,000	2,400,000	955,000	22,700,000
Singapore	144,000	88,800	0	0	16,200
South Africa	330	0	0	0	0
Sweden	12,500	0	0	0	0
Switzerland	11,700	11,700	0	0	0
Taiwan	433	433	40,400	0	118,000
Thailand	94,700	80,000	0	18,900	83,900
United Kingdom	8,770,000	1,550,000	1,200,000	1,670,000	11,500,000
Vietnam	868,000	28,500	45,300	37,600	444,000
Total	49,000,000	4,340,000	4,550,000	3,690,000	45,800,000

Table 3. U.S. exports of ferromolybdenum, by country or locality.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in kilograms, molybdenum content. Source: U.S. Census Bureau.]

Country or locality	2023		2024		
	January– December	December	November	December	January– December
Argentina	0	0	0	0	3,060
Australia	3,770	1,250	0	0	0
Canada	210,000	34,400	23,800	49,100	222,000
Denmark	1,060	0	0	0	0
India	17,700	0	0	0	0
Mexico	111,000	0	0	20,000	384,000
United Kingdom	0	0	0	0	301
Total	343,000	35,600	23,800	69,100	609,000

Table 4. U.S. imports for consumption of molybdenum products.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in kilograms, unless otherwise specified. NA Not available; — Not applicable; --Zero. Source: U.S. Census Bureau.]

Material	2023			2024					
	January–December			December			January–December		
	Gross weight	Molybdenum content	Value ¹ (thousand dollars)	Gross weight	Molybdenum content	Value ¹ (thousand dollars)	Gross weight	Molybdenum content	Value ¹ (thousand dollars)
Molybdenum chemicals									
Oxides and hydroxides	5,140,000	NA	201,000	553,000	NA	17,900	4,280,000	NA	141,000
Molybdates of ammonium	1,480,000	837,000	49,000	32,600	18,400	929	1,130,000	639,000	32,000
Molybdates (all others)	202,000	80,200	4,120	20,400	8,090	467	186,000	73,800	3,670
Molybdenum orange	244,000	NA	1,470	—	NA	—	120,000	NA	527
Other									
Ores and concentrates, roasted	2,220,000	1,400,000	76,100	186,000	112,000	5,420	2,320,000	1,440,000	68,500
Ores and concentrates, other	30,100,000	14,800,000	745,000	1,880,000	911,000	38,600	27,000,000	13,300,000	542,000
Ferromolybdenum	9,190,000	6,270,000	333,000	651,000	443,000	21,800	8,080,000	5,440,000	248,000
Molybdenum powders	80,800	73,800	5,830	1,460	1,420	132	76,300	75,200	4,750
Molybdenum unwrought, bars and rods	597,000	595,000	36,900	115,000	115,000	6,820	999,000	996,000	57,100
Molybdenum waste and scrap	1,860,000	1,710,000	104,000	102,000	99,900	5,350	1,730,000	1,680,000	96,200
Molybdenum wire	18,200	NA	2,810	3,290	NA	323	21,200	NA	2,730
Molybdenum, other	245,000	NA	35,400	12,600	NA	1,950	190,000	NA	27,700
Total	51,400,000	—	1,590,000	3,560,000	—	99,700	46,200,000	—	1,220,000

¹Customs value.