

Mineral Industry Surveys

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TITANIUM IN THE FIRST QUARTER 2025

In the first quarter of 2025, U.S. imports of titanium mineral concentrates, excluding titaniferous iron ore, totaled 245,000 metric tons (t) (gross weight) and included ilmenite (182,000 t), rutile (63,000 t), and synthetic rutile (51 t). Imports of ilmenite increased by 33% compared with imports in the fourth quarter of 2024, and imports of rutile increased by 27%. The U.S. did not import titanium slag during the first quarter of 2025 (table 4). Exports of all forms of titanium mineral concentrates in the first quarter of 2025 were 7,430 t, nearly four times more than the exports in the prior period (table 2).

Imports of all forms of titanium pigment in the first quarter of 2025 were 66,100 t, a 30% increase compared with those in the fourth quarter of 2024 (table 5). Exports of all forms of titanium pigment were 79,200 t, a 10% decrease compared with those in the prior quarter (table 2).

In the first quarter of 2025, total imports of titanium metal, excluding ferrotitanium, were 20,400 t and were primarily in the form of sponge (52%) and waste and scrap (39%). Imports of sponge increased by 7% and imports of waste and scrap increased by 16% compared with those in the prior quarter. Imports of ingot, powder, and other unwrought products were 500 t, 42% less than those in the prior quarter. Total exports of all forms of titanium metal in the first quarter of 2025 increased 10% to 11,200 t from 10,200 t in the prior quarter (table 1).

Industry participation is key to the publication of aggregated totals of domestic titanium statistics. In the first quarter of 2025, domestic production, consumption, shipments, and stocks of sponge, ingot, slab, and mill products were withheld to avoid disclosing company proprietary data owing to limited responses (table 1).

The U.S. Geological Survey's (USGS) National Minerals Information Center canvasses the nonfuel mining and mineral processing industry in the United States for data on mineral production, consumption, recycling, stocks, and shipments. Reporting is voluntary, and the USGS greatly appreciates the data provided by companies participating in the surveys

throughout the United States. The data that companies provide are the foundation upon which the USGS builds its minerals information publications. Unless authorization is granted for release, the data furnished are aggregated to avoid disclosing company proprietary data and are treated as confidential by the Department of the Interior.

Companies may report on a monthly, quarterly, semiannual, and (or) annual basis, depending on the frequency of the surveys. Canvass forms are mailed shortly after the end of the reporting period and are requested to be returned within about 15 to 30 days. In addition to reporting by paper canvass forms, companies can electronically submit data to contribute to this valuable effort. Companies already registered with the USGS can sign up to report electronically by selecting the "Sign up" link at <https://mids.er.usgs.gov>. To notify the USGS of a new operation, or for further information on registering for electronic submissions, visit <https://mids.er.usgs.gov>. The USGS titanium metal quarterly survey has a canvas code of G37. For more information on how to participate in the titanium surveys, please contact Samantha Ewing using the contact information listed above.

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 on 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>.

Table 1. U.S. titanium metal supply and demand.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons, unless otherwise specified. W, withheld to avoid closing company proprietary data. Source: U.S. Census Bureau (<https://usatrade.census.gov/>).]

Product	2024				2025	
	1st quarter	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter
Production						
Sponge	W	W	W	W	W	W
Ingot	W	W	W	W	W	W
Mill products	W	W	W	W	W	W
Exports						
Waste and scrap	2,740	3,120	2,990	2,610	11,500	2,960
Sponge	41	4	21	7	73	4
Ingot	1,710	1,400	1,290	998	5,400	1,770
Other unwrought	974	1,070	926	1,050	4,020	942
Bar, rod, profiles, wire	2,180	1,980	2,180	1,680	8,020	2,130
Bloom, sheet bar, slab	777	746	921	894	3,340	298
Other wrought	2,800	3,080	2,960	2,950	11,800	3,050
Total	11,200	11,400	11,300	10,200	44,100	11,200
Imports						
Waste and scrap	6,550	6,970	7,510	6,780	27,800	7,870
Sponge ¹	11,200	9,060	9,590	9,830	39,700	10,500
Ingot	223	316	539	682	1,760	407
Powder	77	51	91	60	279	56
Other unwrought	20	57	30	125	232	37
Wrought	1,040	1,190	1,000	1,200	4,430	1,200
Castings	10	11	6	3	31	10
Other	225	239	343	275	1,080	325
Total	19,300	17,900	19,100	19,000	75,300	20,400
Stocks, end of period						
Sponge, industry	W	W	W	W	W	W
Scrap	W	W	W	W	W	W
Ingot	W	W	W	W	W	W
Consumption						
Sponge	W	W	W	W	W	W
Scrap	W	W	W	W	W	W
Ingot	W	W	W	W	W	W
Shipments						
Ingot and slab (producer net shipments)	W	W	W	W	W	W
Mill products (net shipments), forging and extrusion bills	W	W	W	W	W	W
Mill products (net shipments), Other	W	W	W	W	W	W
Total	W	W	W	W	W	W
Castings	W	W	W	W	W	W
Receipts, scrap						
Home	W	W	W	W	W	W
Purchased	W	W	W	W	W	W
Total	W	W	W	W	W	W

¹ Estimated by the U.S. Geological Survey.

Table 2. U.S. exports of titanium product.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons, unless otherwise specified.]

Source: U.S. Census Bureau (<https://usatrade.census.gov/>).]

Product and Schedule B code	2024				2025	
	1st quarter	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter
Metal						
Waste and scrap (8108.30.0000)	2,740	3,120	2,990	2,610	11,500	2,960
Metal, unwrought						
Sponge (8108.20.0010)	41	4	21	7	73	4
Ingot (8108.20.0030)	1,710	1,400	1,290	998	5,400	1,770
Other (8108.20.0090)	974	1,070	926	1,050	4,020	942
Metal, wrought						
Bar, rod, profiles, wire (8108.90.6031)	2,180	1,980	2,180	1,680	8,020	2,130
Bloom, sheet bar, slab (8108.90.6020)	777	746	921	894	3,340	298
Other (8108.90.8000)	2,800	3,080	2,960	2,950	11,800	3,050
Pigment						
80% or more titanium dioxide (3206.11.0000)	74,400	86,500	93,100	83,500	337,000	73,500
Other titanium dioxide (3206.19.0000)	2,920	2,530	2,900	2,500	10,800	2,750
Unfinished titanium dioxide ¹ (2823.00.0000)	2,750	2,940	1,900	1,910	9,490	3,000
Other						
Ferrotitanium and ferrosilicon titanium (7202.91.0000)	336	361	200	265	1,160	213
Ores and concentrates (2614.00.0000)	1,450	1,910	2,030	1,890	7,290	7,430

¹Unmixed and not surface treated.

Table 3. U.S. imports of titanium metal.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons, unless otherwise specified. Estimated data are marked with a superscript "e." Source: U.S. Census Bureau]

Product and HTS ¹ Code	2024				2025	
	1st quarter	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter
Waste and scrap (8108.30.0000)						
Canada	673	595	553	588	2,410	605
China	275	328	281	269	1,150	214
France	688	741	807	770	3,010	661
Germany	546	891	1,000	833	3,270	675
Italy	384	324	350	286	1,340	512
Japan	733	782	743	773	3,030	834
Korea, Republic of	692	545	733	562	2,530	616
Mexico	389	420	429	451	1,690	420
Poland	254	258	289	291	1,090	286
Singapore	250	352	292	249	1,140	604
United Kingdom	1,060	1,130	1,400	1,240	4,830	1,760
Other	609	599	637	470	2,320	684
Total	6,550	6,970	7,510	6,780	27,800	7,870
Unwrought, sponge (8108.20.0010)						
China	190	150	510	218	1,070	149
Japan	7,670	5,910	6,480	7,640	27,700	7,480
Kazakhstan ^e	1,210	766	84	340	2,400	1,390
Saudi Arabia	2,090	2,220	2,520	1,600	8,430	1,500
Other	24	20	0	33	77	19
Total	11,200	9,060	9,590	9,830	39,700	10,500
Unwrought, ingot (8108.20.0030)						
Kazakhstan	209	285	524	524	1,540	391
Russia	13	8	7	0	28	0
Other	(²)	22	8	158	188	16
Total	223	316	539	682	1,760	407
Unwrought						
Powder (8108.20.0015)	77	51	91	60	279	56
Other (8108.20.0095)	20	57	30	125	232	37
Wrought						
Bar, rod, profiles, wire (8108.90.6031)	383	301	359	401	1,440	411
Bloom, sheet bar, slab (8108.90.6020)	78	0	1	6	85	6
Plate, sheet, strip, foil (8108.90.6045)	373	740	409	473	1,990	408
Tube and pipe (8108.90.6060)	75	57	59	61	253	72
Other (8108.90.6075)	129	91	173	261	654	299
Total	1,040	1,190	1,000	1,200	4,430	1,200
Wrought, other articles of titanium						
Castings (8108.90.3030)	10	11	6	3	31	10
Other (8108.90.3060)	225	239	343	275	1,080	325
Ferrotitanium and ferrosilicon titanium (7202.91.0000)						
Total	407	624	489	500	2,020	370

¹Harmonized Tariff Schedule of the United States.

²Less than ½ unit.

Table 4. U.S. imports of titanium concentrates.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons, unless otherwise specified. Source: U.S. Census Bureau (<https://usatrade.census.gov/>).]

Product and HTS ¹ Code	2024				2025	
	1st quarter	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter
Ilmenite (2614.00.6020)						
Madagascar	69,500	0	29,000	82,000	181,000	82,900
Mozambique	61,000	0	43,200	36,300	140,000	83,800
Senegal	35,000	25,000	0	0	60,000	0
Ukraine	0	0	0	18,700	18,700	15,000
Other	10,000	0	4	40	10,100	0
Total	175,000	25,000	72,200	137,000	410,000	182,000
Titanium slag (2620.99.5000)						
Canada	3	42,900	47,300	55,300	146,000	0
Norway	0	20,000	40,000	28,500	88,500	0
South Africa	28,700	17,200	0	6,020	52,000	0
Other	0	0	(²)	0	(²)	0
Total	28,800	80,200	87,300	89,800	286,000	0
Rutile (2614.00.6040)						
Australia	25,200	12,400	594	39,500	77,600	33,500
Kenya	10,000	0	123	223	10,300	441
South Africa	30,400	9,770	29,600	7,710	77,400	7,240
Ukraine	0	0	10,900	2,620	13,500	0
Other	51	271	1,070	1	1,400	22,200
Total	65,600	22,500	42,300	50,000	180,000	63,400
Synthetic rutile (2614.00.3000)						
China	1	0	17	0	17	11
Sierra Leone	0	0	0	0	0	40
Total	1	0	17	0	17	51
Titaniferous iron ore³ (2614.00.6020), Canada						
Total	0	0	0	6	6	0

¹Harmonized Tariff Schedule of the United States.

²Less than ½ unit.

³Includes materials consumed for purposes other than the production of titanium commodities, principally heavy aggregate and steel-furnace flux. Titaniferous iron ore from Canada is classified as ilmenite under the Harmonized Tariff Schedule of the United States and is not included in the previous ilmenite totals.

Table 5. U.S. imports of titanium pigment.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons, unless otherwise specified. Source: U.S. Census Bureau (<https://usatrade.census.gov/>).]

Product and HTS ¹ Code	2024				2025	
	1st quarter	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter
80% or more titanium dioxide (3206.11.0000)						
Australia	1,550	2,170	2,730	2,010	8,460	1,490
Belgium	1,930	1,800	1,490	1,320	6,550	1,820
Canada	22,800	24,800	23,300	19,200	90,200	29,600
China	5,370	6,780	6,130	3,970	22,200	5,860
Germany	3,220	3,130	3,790	2,920	13,100	3,330
Japan	906	1,140	1,210	904	4,160	1,090
Mexico	6,890	7,930	1,250	323	16,400	676
Spain	2,200	2,180	3,440	3,550	11,400	2,690
Other	3,720	6,660	8,430	7,050	25,900	8,150
Total	48,600	56,600	51,800	41,300	198,000	54,800
Other titanium dioxide (3206.19.0000)						
Canada	3,830	3,800	3,870	3,350	14,800	3,750
China	45	18	198	57	319	35
France	200	206	31	12	449	2
India	233	389	271	298	1,190	497
Italy	240	352	79	8	679	34
Mexico	180	64	111	127	483	109
Other	355	458	477	582	1,870	568
Total	5,080	5,290	5,030	4,440	19,800	5,000
Unfinished titanium dioxide² (2823.00.0000)						
Canada	232	358	158	181	929	103
China	1,980	1,690	1,710	1,840	7,220	3,130
France	20	278	474	942	1,710	1,090
Germany	403	483	331	377	1,590	330
India	482	559	358	490	1,890	643
Korea, Republic of	565	511	1,180	717	2,980	269
Other	516	370	356	575	1,820	826
Total	4,200	4,250	4,570	5,120	18,100	6,390
Grand total	57,900	66,200	61,400	50,800	236,000	66,100

¹Harmonized Tariff Schedule of the United States.

²Unmixed and not surface treated.

Table 6. Titanium materials prices.

[Data are in dollars per metric ton, unless otherwise specified. NA, not available.]

Product and unit	2024				2025
	1st quarter	2d quarter	3rd quarter	4th quarter	1st quarter
Mineral concentrates¹					
Ilmenite, cost, insurance, freight, China	339	330	330	325	320
Rutile, Bagged, free on board (f.o.b.) Australian ports	1,860	1,850	1,810	1,730	1,570
Rutile, Bulk, f.o.b. Australian ports	1,330	1,330	1,280	1,250	1,170
Titanium slag²					
Canada, import	2,140	1,060	1,110	1,000	NA
Norway, import	NA	871	853	828	NA
South Africa, import	959	936	NA	928	NA
Metal					
Sponge metal, Japan, import (dollars per kilogram) ²	13.10	13.60	14.00	13.40	12.70
Titanium mill products (producer price index ³)	211	214	217	220	236
Titanium scrap, turnings, unprocessed ([Ti-6Al-4V] [dollars per pound]) ⁴	2.25	2.25	2.25	2.25	2.25
Ferrotitanium, 70% (max. 4.5% Al) per pound Ti (dollars per pound) ⁴	3.41	3.32	3.34	3.42	3.55
Pigment²					
80% or more titanium dioxide, import	3,120	3,150	3,220	3,200	3,170

¹Source: Fastmarkets IM.²Unit value based on landed-duty-paid U.S. imports for consumption.³June 1982=100. Source: U.S. Department of Labor, Bureau of Labor Statistics.⁴Source: S&P Global Platts Metals Week.