Mineral Industry Surveys

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TITANIUM IN THE SECOND QUARTER 2025

In the second quarter of 2025, U.S. imports of titanium mineral concentrates, excluding titaniferous iron ore, totaled 247,000 metric tons (t) (gross weight) which included titanium slag (119,000), ilmenite (104,000 t), and rutile (23,600 t). Imports of ilmenite decreased by 43% compared with imports in the first quarter of 2025, and imports of rutile decreased by 63%. 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 second quarter of 2025 were 958 t, an 87% decrease compared with exports in the prior period (table 2).

Imports of all forms of titanium pigment in the second quarter of 2025 were 51,000 t, a 23% decrease compared with those in the first quarter of 2025 (table 5). Exports of all forms of titanium pigment were 85,100 t, a 7% increase compared with those in the prior quarter (table 2).

In the second quarter of 2025, total imports of titanium metal, excluding ferrotitanium, were 21,500 t and were primarily in the form of sponge (51%) and waste and scrap (39%). Imports of sponge increased by 4% and imports of waste and scrap increased by 7% compared with those in the prior quarter. Imports of ingot, powder, and other unwrought products were 524 t, 5% more than those in the prior quarter. Total exports of all forms of titanium metal in the second quarter of 2025 increased 2% to 11,400 t from 11,200 t in the prior quarter (table 1).

Industry participation is key to the publication of aggregated totals of domestic titanium statistics. In the second 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.

Industry News

In June 2025, Atlantic Strategic Minerals (Petersburg, VA) (ASM) announced commercial production of ilmenite and zircon had begun at their mining and processing operations in Virginia. ASM's facilities included a mine, concentrator, and mineral separation plant. ASM acquired the assets in 2023 from Iluka Resources Ltd. (Australia) who closed the facilities in 2016 owing to undesired commercial terms (Iluka Resources Ltd., 2015, p. 24; 2017, p. 24; Atlantic Strategic Minerals, 2025).

References Cited

Atlantic Strategic Minerals, 2025, Atlantic Strategic Minerals celebrates commercial production at its Virginia mining and mineral processing operations: Petersburg, VA, Atlantic Strategic Minerals news release, June 26. (Accessed September 15, 2025, at https://www.globenewswire.com/news-release/2025/06/26/3105976/0/en/Atlantic-Strategic-Minerals-celebrates-commercial-production-at-its-Virginia-mining-and-mineral-processing-operations.html.)

Iluka Resources Ltd., 2015, 2014 Full year results: Perth, Western Australia, Australia, Iluka Resources Ltd., February 17, 56 p. (Accessed September 16, 2025, at https://www.iluka.com/media/jkeje1sp/2014-full-year-results-presentation-17-february-2015.pdf.)
Iluka Resources Ltd., 2017, 2016 Full year results: Perth, Western Australia, Australia, Iluka Resources Ltd., February 23, 34 p. (Accessed September 15, 2025, at https://www.iluka.com/media/d51nt001/full-year-results-2016-presentation.pdf.)

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. Revised data are marked with a superscript "r." 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	2d quarter	1st quarter–2d quarter
Production								
Sponge	W	W	W	W	W	W	W	W
Ingot	W	W	W	W	W	W	W	W
Mill products	W	W	W	W	W	W	W	W
Exports								
Waste and scrap	2,740	3,120	3,000 r	2,610	11,500	2,960	3,650	6,610
Sponge	38 r	4	21	7	70 r	4	16	20
Ingot	1,710	1,400	1,290	998	5,400	1,770	1,750	3,520
Other unwrought	973 r	1,070	938 r	1,050	4,030 r	942	823	1,760
Bar, rod, profiles, wire	2,190 r	1,980	2,150 r	1,680	8,000 r	2,130	1,940	4,060
Bloom, sheet bar, slab	777	746	921	895 r	3,340	298	170	467
Other wrought	2,800	3,090 r	2,970 r	2,960 r	11,800	3,050	3,030	6,080
Total	11,200	11,400	11,300	10,200	44,100	11,200	11,400	22,500
Imports								
Waste and scrap	6,560 r	6,980 r	7,510	6,790 r	27,800	7,870	8,460	16,300
Sponge[1]	11,300 r	9,160 r	9,590	9,830	39,800 r	10,500	11,000	21,500
Ingot	223	317 r	539	682	1,760	407	409	815
Powder	77	51	91	60	279	56	68	124
Other unwrought	17 r	57	30	125	228 r	37	48	84
Wrought	1,040	1,190	992 r	1,200	4,420 r	1,200	1,210	2,410
Castings	10	11	6	3	31	10	42	52
Other	225	239	343	275	1,080	325	304	628
Total	19,400 r	18,000 r	19,100	19,000	75,500 r	20,400	21,500	42,000
Stocks, end of period								
Sponge, industry	W	W	W	W	W	W	W	W
Scrap	W	W	W	W	W	W	W	W
Ingot	W	W	W	W	W	W	W	W
Consumption								
Sponge	W	W	W	W	W	W	W	W
Scrap	W	W	W	W	W	W	W	W
Ingot	W	W	W	W	W	W	W	W
Shipments								
Ingot and slab (producer net shipments)	W	W	W	W	W	W	W	W
Mill products (net shipments), forging and extrusion bille	W	W	W	W	W	W	W	W
Mill products (net shipments), Other	W	W	W	W	W	W	W	W
Total	W	W	W	W	W	W	W	W
Castings	W	W	W	W	W	W	W	W
Receipts, scrap								
Home	W	W	W	W	W	W	W	W
Purchased	W	W	W	W	W	W	W	W
Total	W	W	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. Revised data are marked with a superscript "r." 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	2d quarter	1st quarter–2d quarter
Metal								
Waste and scrap (8108.30.0000)	2,740	3,120	3,000 r	2,610	11,500	2,960	3,650	6,610
Metal, unwrought								
Sponge (8108.20.0010)	38 r	4	21	7	70 r	4	16	20
Ingot (8108.20.0030)	1,710	1,400	1,290	998	5,400	1,770	1,750	3,520
Other (8108.20.0090)	973 r	1,070	938 r	1,050	4,030 r	942	823	1,760
Metal, wrought								
Bar, rod, profiles, wire (8108.90.6031)	2,190 r	1,980	2,150 r	1,680	8,000 r	2,130	1,940	4,060
Bloom, sheet bar, slab (8108.90.6020)	777	746	921	895 r	3,340	298	170	467
Other (8108.90.8000)	2,800	3,090 r	2,970 r	2,960 r	11,800	3,050	3,030	6,080
Pigment								
80% or more titanium dioxide (3206.11.0000)	75,300 r	83,400 r	92,500 r	86,300 r	338,000 r	73,500	79,500	153,000
Other titanium dioxide (3206.19.0000)	2,910 r	2,530	2,900	2,560 r	10,900 r	2,750	2,740	5,480
Unfinished titanium dioxide[1] (2823.00.0000)	2,750	2,940	1,900	1,920 r	9,500 r	3,000	2,830	5,830
Other								
Ferrotitanium and ferrosilicon titanium (7202.91.0000)	336	361	200	284 r	1,180 r	213	278	491
Ores and concentrates (2614.00.0000)	1,450	1,910	2,030	1,900 r	7,300 r	7,430	958	8,390

[1]Unmixed 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." Revised data are marked with a superscript "r." 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	2d quarter	1st quarter–2d quarter
Waste and scrap (8108.30.0000)								
Canada	673	602 r	553	588	2,420 r	605	594	1,200
China	275	328	281	266 r	1,150	214	160	375
France	688	741	807	770	3,010	661	883	1,540
Germany	546	891	1,000	833	3,270	675	931	1,610
Italy	384	324	350	286	1,340	512	604	1,120
Japan	737 r	782	743	773	3,030	834	667	1,500
Korea, Republic of	692	545	733	562	2,530	616	804	1,420
Mexico	389	420	429	451	1,690	420	439	859
Poland	254	258	289	291	1,090	286	356	642
Singapore	250	352	292	249	1,140	604	942	1,550
United Kingdom	1,060	1,130	1,400	1,240	4,830	1,760	1,320	3,080
Other	609	601 r	639 r	481 r	2,330 r	684	752	1,440
Total	6,560 r	6,980 r	7,510	6,790 r	27,800	7,870	8,460	16,300
Unwrought, sponge (8108.20.0010)								
China	190	150	510	218	1,070	149	103	252
Japan	7,740 r	6,010 r	6,480	7,640	27,900 r	7,480	8,220	15,700
Kazakhstan[e]	1,220 r	770	84	340	2,410 r	1,390	1,290	2,680
Saudi Arabia	2,090	2,220	2,520	1,600	8,430	1,500	1,340	2,840
Other	24	20	0	33	77	19	18	36
Total	11,300 r	9,160 r	9,590	9,830	39,800 r	10,500	11,000	21,500
Unwrought, ingot (8108.20.0030)								
Kazakhstan	209	285	524	524	1,540	391	195	586
Russia	13	10 r	7	0	30 r	0	0	0
Other	(2)	22	8	158	188	16	214	229
Total	223	317 r	539	682	1,760	407	409	815
Unwrought								
Powder (8108.20.0015)	77	51	91	60	279	56	68	124
Other (8108.20.0095)	17 r	57	30	125	228 r	37	48	84
Wrought								
Bar, rod, profiles, wire (8108.90.6031)	382 r	301	351 r	399 r	1,430 r	411	583	995
Bloom, sheet bar, slab (8108.90.6020)	78	0	1	6	85	6	2	8
Plate, sheet, strip, foil (8108.90.6045)	372 r	740	409	476 r	2,000 r	408	385	793
Tube and pipe (8108.90.6060)	75	57	59	59 r	250 r	72	81	153
Other (8108.90.6075)	129	91	172 r	263 r	654	299	157	457
Total	1,040	1,190	992 r	1,200	4,420 r	1,200	1,210	2,410
Wrought, other articles of titanium								
Castings (8108.90.3030)	10	11	6	3	31	10	42	52
Other (8108.90.3060)	225	239	343	275	1,080	325	304	628
Ferrotitanium and ferrosilicon titanium (7202.91.0000)								
Total	407	624	489	502 r	2,020	370	660	1,030

[1]Harmonized Tariff Schedule of the United States.

[2]Less 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	2d quarter	1st quarter–2d quarter
Ilmenite (2614.00.6020)								
Madagascar	69,500	0	29,000	82,000	181,000	82,900	18,100	101,000
Mozambique	61,000	0	43,200	36,300	140,000	83,800	42,200	126,000
Senegal	35,000	25,000	0	0	60,000	0	27,000	27,000
Ukraine	0	0	0	18,700	18,700	15,000	16,500	31,500
Other	10,000	0	4	40	10,100	0	4	4
Total	175,000	25,000	72,200	137,000	410,000	182,000	104,000	285,000
Titanium slag (2620.99.5000)								
Canada	3	42,900	47,300	55,300	146,000	0	16,000	16,000
Norway	0	20,000	40,000	28,500	88,500	0	40,100	40,100
South Africa	28,700	17,200	0	6,020	52,000	0	63,100	63,100
Other	0	0	(2)	0	(2)	0	0	0
Total	28,800	80,200	87,300	89,800	286,000	0	119,000	119,000
Rutile (2614.00.6040)								
Australia	25,200	12,400	594	39,500	77,600	33,500	628	34,100
Kenya	10,000	0	123	223	10,300	441	164	605
South Africa	30,400	9,770	29,600	7,710	77,400	7,240	10,100	17,400
Ukraine	0	0	10,900	2,620	13,500	0	56	56
Other	51	271	1,070	1	1,400	22,200	12,600	34,900
Total	65,600	22,500	42,300	50,000	180,000	63,400	23,600	87,000
Synthetic rutile (2614.00.3000)								
China	1	0	17	0	17	11	0	11
Sierra Leone	0	0	0	0	0	40	0	40
Other	0	0	0	0	0	0	(2)	(2)
Total	1	0	17	0	17	51	(2)	51
Titaniferous iron ore[3] (2614.00.6020), Canada								
Total	0	0	0	6	6	0	0	0

[1]Harmonized Tariff Schedule of the United States.

[2]Less than ½ unit.

[3]Includes 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. Revised data are marked with a supersript "r." 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	2d quarter	1st quarter–2d quarter
80% or more titanium dioxide (3206.11.0000)								
Australia	1,550	2,170	2,730	2,010	8,460	1,490	2,520	4,010
Belgium	1,930	1,800	1,490	1,320	6,550	1,820	2,620	4,440
Canada	22,800	24,800	23,300	19,200	90,200	29,600	13,900	43,600
China	5,370	6,760 r	6,090 r	4,020 r	22,200	5,860	5,160	11,000
Czech Republic	1,250	1,740	1,180	1,160	5,340	1,900	1,650	3,550
Germany	3,210 r	3,130	3,790	2,920	13,000 r	3,330	4,340	7,670
Mexico	6,890	7,930	1,250	323	16,400	676	1,770	2,450
United Kingdom	731	1,830	2,550	2,230	7,340	1,900	1,810	3,710
Other	4,840 r	6,420 r	9,340 r	8,080 r	28,700 r	8,140 r	7,030	15,200
Total	48,600	56,600	51,700 r	41,300	198,000	54,800	40,800	95,600
Other titanium dioxide (3206.19.0000)								
Canada	3,830	3,800	3,870	3,350	14,800	3,750	2,840	6,600
France	200	206	31	12	449	2	364	367
Germany	61	47	46	37	191	70	374	444
India	233	389	271	298	1,190	497	281	779
Mexico	180	64	111	127	483	109	177	286
Netherlands	21	(2)	136	228	386	252	321	573
Other	558 r	780 r	571 r	382 r	2,290 r	315 r	475	790
Total	5,080	5,290	5,030	4,440	19,800	5,000	4,840	9,840
Unfinished titanium dioxide[3] (2823.00.0000)								
China	1,980	1,690	1,710	1,840	7,220	3,130	1,440	4,560
Czech Republic	356	223	240	280	1,100	332	598	930
France	20	278	474	942	1,710	1,090	731	1,820
Germany	403	483	331	377	1,590	330	310	640
India	482	559	358	490	1,890	643	399	1,040
Korea, Republic of	565	511	1,180	717	2,980	269	1,610	1,870
Other	392 r	505 r	275 r	456 r	1,630 r	596 r	279	875
Total	4,200	4,250	4,570	5,100 r	18,100	6,390	5,360	11,700
Grand total	57,900	66,100 r	61,300 r	50,800	236,000	66,200 r	51,000	117,000

[1]Harmonized Tariff Schedule of the United States.

[2]Less than ½ unit.

[3]Unmixed and not surface treated.

Table 6. Titanium materials prices.
[Data are in dollars per metric ton, unless otherwise specified. Revised data are marked with a superscript "r." NA, not available.]

Product and unit	2024				2025	
	1st quarter	2d quarter	3rd quarter	4th quarter	1st quarter	2d quarter
Mineral concentrates[1]						
Ilmenite, cost, insurance, freight, China	339	330	330	325	320	295
Rutile, Bagged, free on board (f.o.b.) Australian ports	1,860	1,850	1,810	1,730	1,570	1,450
Rutile, Bulk, f.o.b. Australian ports	1,330	1,330	1,280	1,250	1,170	1,130
Titanium slag[2]						
Canada, import	2,140	1,060	1,110	1,000	NA	1,110
Norway, import	NA	871	853	828	NA	832
South Africa, import	959	936	NA	928	NA	783
Metal						
Sponge metal, Japan, import (dollars per kilogram)[2]	13.00 r	13.50 r	14.00	13.40	12.70	12.20
Titanium mill products (producer price index[3])	211	214	217	220	236	232
Titanium scrap, turnings, unprocessed ([Ti-6Al-4V] [dollars per pound])[4]	2.25	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	2.79
Pigment[2]						
80% or more titanium dioxide, import	3,110 r	3,150	3,220	3,200	3,170	3,300

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