

Mineral Industry Surveys

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TITANIUM IN THIRD QUARTER 2025

In the third quarter of 2025, U.S. imports of titanium mineral concentrates, excluding titaniferous iron ore, totaled 291,000 metric tons (t) (gross weight) which included ilmenite (153,000 t), titanium slag (85,000 t), rutile (53,600 t), and synthetic rutile (2 t). Imports of rutile were more than double imports in the previous quarter, imports of ilmenite increased by 47%, and imports of slag decreased by 29% (table 4). Exports of titanium ores and concentrates in the third quarter of 2025 were 1,180 t, a 24% increase compared with exports in the prior period (table 2).

Imports of all forms of titanium pigment in the third quarter of 2025 were 50,000 t, a 2% decrease compared with those in the second quarter of 2025 (table 5). Exports of all forms of titanium pigment were 78,300 t, an 8% decrease compared with those in the prior quarter (table 2).

In the third quarter of 2025, total imports of titanium metal, excluding ferrotitanium, were 21,000 t and were primarily in the form of sponge (53%) and waste and scrap (37%). Estimated imports of sponge increased by 1% and imports of waste and scrap decreased by 8% compared with those in the prior quarter. Imports of ingot, powder, and other unwrought products were 819 t, 56% more than those in the prior quarter. Total exports of all forms of titanium metal in the third quarter of 2025 decreased by 5% to 10,800 t from 11,400 t in the prior quarter (table 1).

Industry News

Iluka Resources Ltd. (Australia) announced it would suspend production at the Cataby Mine and a synthetic rutile kiln (named SR2) citing low market demand for mineral sands and pigment. The announcement was released in September, and the suspension would be effective December 1, 2025. During the first half of 2025, Iluka produced 338,000 t of heavy mineral concentrate (HMC) at Cataby and 113,000 t of synthetic rutile at SR2. Cataby accounted for 68% of HMC produced at Iluka's Australian mines. Iluka stated they would restart the Cataby Mine and SR2 when market conditions improved (Iluka Resources Ltd., 2025a, p. 7, 2025b).

In September 2025, Venator Materials PLC (United Kingdom) suspended operations at the Malaysia titanium dioxide (TiO₂) plant citing prevailing business circumstances.

The plant had a capacity of 60,000 metric tons per year (t/yr) of TiO₂. The announcement followed other recent Venator plant closures in Scarlino, Italy, in 2023 (capacity 80,000 t/yr TiO₂) and in Duisburg, Germany, in 2024 (capacity 50,000 t/yr TiO₂). During the month, Venator Materials PLC went into administration (insolvency) and announced it would sell businesses in the United Kingdom, which included a TiO₂ plant in Greatham with a capacity of 150,000 t/yr of TiO₂ (Venator Materials PLC, 2024, p. 6, 11; 2025; ETIO2, 2025).

Industry Participation

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

References Cited

- ETIO2, 2025, Venator in crisis—Selling UK assets, German insolvency, Malaysia TiO2 suspension: ETIO2, September 16. (Accessed February 12, 2026, at <https://etio2.com/top-stories/venator-in-crisis-selling-uk-assets-german-insolvency-malaysia-tio%E2%82%82-suspension/>.)
- Iluka Resources Ltd., 2025a, Interim report for the half-year ended 30 June 2025: Perth, Western Australia, Australia, Iluka Resources Ltd., June 30, 26 p. (Accessed February 12, 2026, at <https://www.iluka.com/media/lbynut5t/20aug25-half-year-interim-report.pdf>.)
- Iluka Resources Ltd., 2025b, Mineral sands—Production suspension at Cataby and SR2: Perth, Western Australia, Australia, Iluka Resources Ltd. ASX exchange notice, September 10. (Accessed February 12, 2026, at <https://www.iluka.com/media/icpntgtm/10sept25-mineral-sands-production-suspension-at-cataby-and-sr2.pdf>.)
- Venator Materials PLC, 2024, Annual report and financial statements for the year ended 31 December 2023: London, United Kingdom, Venator Materials PLC, 232 p. (Accessed February 12, 2026, at <https://www.venatorcorp.com/~media/Files/V/Venator/annual-report-and-proxy-statement/2023-annual-report-and-accounts.pdf>.)

Venator Materials PLC, 2025, Alvarez & Marsal appointed administrators to Venator plc holding companies; UK, US and France trading companies continue to operate as normal: London, United Kingdom, Venator Materials PLC news release, September 2. (Accessed February 12, 2026, at <https://www.venatorcorp.com/media/media-centre/2025/09-2025>.)

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	2d quarter	3d quarter	1st quarter–3d quarter
Production									
Sponge	W	W	W	W	W	W	W	W	W
Ingot	W	W	W	W	W	W	W	W	W
Mill products	W	W	W	W	W	W	W	W	W
Exports									
Waste and scrap	2,740	3,120	3,000	2,610	11,500	2,960	3,650	3,370	9,980
Sponge	38	4	21	7	70	4	16	39	59
Ingot	1,710	1,400	1,290	998	5,400	1,770	1,750	1,650	5,180
Other unwrought	973	1,070	938	1,050	4,030	942	823	875	2,640
Bar, rod, profiles, wire	2,190	1,980	2,150	1,680	8,000	2,130	1,940	1,820	5,880
Bloom, sheet bar, slab	777	746	921	895	3,340	298	170	201	669
Other wrought	2,800	3,090	2,970	2,960	11,800	3,050	3,030	2,820	8,900
Total	11,200	11,400	11,300	10,200	44,100	11,200	11,400	10,800	33,300
Imports									
Waste and scrap	6,560	6,980	7,510	6,790	27,800	7,870	8,460	7,790	24,100
Sponge ¹	11,300	9,160	9,590	9,830	39,800	10,500	11,000	11,100	32,600
Ingot	223	317	539	682	1,760	407	409	688	1,500
Powder	77	51	91	60	279	56	68	75	199
Other unwrought	17	57	30	125	228	37	48	57	141
Wrought	1,040	1,190	992	1,200	4,420	1,200	1,210	925	3,330
Castings	10	11	6	3	31	10	42	35	88
Other	225	239	343	275	1,080	325	304	354	983
Total	19,400	18,000	19,100	19,000	75,500	20,400	21,500	21,000	62,900
Stocks, end of period									
Sponge, industry	W	W	W	W	W	W	W	W	W
Scrap	W	W	W	W	W	W	W	W	W
Ingot	W	W	W	W	W	W	W	W	W
Consumption									
Sponge	W	W	W	W	W	W	W	W	W
Scrap	W	W	W	W	W	W	W	W	W
Ingot	W	W	W	W	W	W	W	W	W
Shipments									
Ingot and slab (producer net shipments)	W	W	W	W	W	W	W	W	W
Mill products (net shipments), forging and extrusion bills	W	W	W	W	W	W	W	W	W
Mill products (net shipments), Other	W	W	W	W	W	W	W	W	W
Total	W	W	W	W	W	W	W	W	W
Castings	W	W	W	W	W	W	W	W	W
Receipts, scrap									
Home	W	W	W	W	W	W	W	W	W
Purchased	W	W	W	W	W	W	W	W	W
Total	W	W	W	W	W	W	W	W	W

¹Estimated 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	2d quarter	3d quarter	1st quarter– 3d quarter
	Metal								
Waste and scrap (8108.30.0000)	2,740	3,120	3,000	2,610	11,500	2,960	3,650	3,370	9,980
	Metal, unwrought								
Sponge (8108.20.0010)	38	4	21	7	70	4	16	39	59
Ingot (8108.20.0030)	1,710	1,400	1,290	998	5,400	1,770	1,750	1,650	5,180
Other (8108.20.0090)	973	1,070	938	1,050	4,030	942	823	875	2,640
	Metal, wrought								
Bar, rod, profiles, wire (8108.90.6031)	2,190	1,980	2,150	1,680	8,000	2,130	1,940	1,820	5,880
Bloom, sheet bar, slab (8108.90.6020)	777	746	921	895	3,340	298	170	201	669
Other (8108.90.8000)	2,800	3,090	2,970	2,960	11,800	3,050	3,030	2,820	8,900
	Pigment								
80% or more titanium dioxide (3206.11.0000)	75,300	83,400	92,500	86,300	338,000	73,500	79,500	73,500	227,000
Other titanium dioxide (3206.19.0000)	2,910	2,530	2,900	2,560	10,900	2,750	2,740	2,470	7,960
Unfinished titanium dioxide ¹ (2823.00.0000)	2,750	2,940	1,900	1,920	9,500	3,000	2,830	2,300	8,130
	Other								
Ferrotitanium and ferrosilicon titanium (7202.91.0000)	336	361	200	284	1,180	213	278	160	651
Ores and concentrates (2614.00.0000)	1,450	1,910	2,030	1,900	7,300	7,430	958	1,180	9,570

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 (<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	3d quarter	1st quarter– 3d quarter
Waste and scrap (8108.30.0000)									
Canada	673	602	553	588	2,420	605	594	552	1,750
China	275	328	281	266	1,150	214	160	233	608
France	688	741	807	770	3,010	661	883	688	2,230
Germany	546	891	1,000	833	3,270	675	931	436	2,040
Italy	384	324	350	286	1,340	512	604	261	1,380
Japan	737	782	743	773	3,030	834	667	864	2,370
Korea, Republic of	692	545	733	562	2,530	616	804	847	2,270
Mexico	389	420	429	451	1,690	420	439	539	1,400
Poland	254	258	289	291	1,090	286	356	205	847
Singapore	250	352	292	249	1,140	604	942	647	2,190
United Kingdom	1,060	1,130	1,400	1,240	4,830	1,760	1,320	1,400	4,480
Other	609	601	639	481	2,330	684	752	1,120	2,560
Total	6,560	6,980	7,510	6,790	27,800	7,870	8,460	7,790	24,100
Unwrought, sponge (8108.20.0010)									
China	190	150	510	218	1,070	149	103	0	252
Japan	7,740	6,010	6,480	7,640	27,900	7,480	8,220	9,100	24,800
Kazakhstan ^e	1,220	770	84	340	2,410	1,390	1,290	916	3,590
Saudi Arabia	2,090	2,220	2,520	1,600	8,430	1,500	1,340	932	3,780
Other	24	20	0	33	77	19	18	120	157
Total	11,300	9,160	9,590	9,830	39,800	10,500	11,000	11,100	32,600
Unwrought, ingot (8108.20.0030)									
Kazakhstan	209	285	524	524	1,540	391	195	575	1,160
Russia	13	10	7	0	30	0	0	0	0
Other	²	22	8	158	188	16	214	112	342
Total	223	317	539	682	1,760	407	409	688	1,500
Unwrought									
Powder (8108.20.0015)	77	51	91	60	279	56	68	75	199
Other (8108.20.0095)	17	57	30	125	228	37	48	57	141
Wrought									
Bar, rod, profiles, wire (8108.90.6031)	382	301	351	399	1,430	411	583	395	1,390
Bloom, sheet bar, slab (8108.90.6020)	78	0	1	6	85	6	2	2	10
Plate, sheet, strip, foil (8108.90.6045)	372	740	409	476	2,000	408	385	256	1,050
Tube and pipe (8108.90.6060)	75	57	59	59	250	72	81	139	292
Other (8108.90.6075)	129	91	172	263	654	299	157	132	588
Total	1,040	1,190	992	1,200	4,420	1,200	1,210	925	3,330
Wrought, other articles of titanium									
Castings (8108.90.3030)	10	11	6	3	31	10	42	35	88
Other (8108.90.3060)	225	239	343	275	1,080	325	304	354	983
Ferrotitanium and ferrosilicon titanium (7202.91.0000)									
Total	407	624	489	502	2,020	370	660	772	1,800

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	2d quarter	3d quarter	1st quarter– 3d quarter
Ilmenite (2614.00.6020)									
Madagascar	69,500	0	29,000	82,000	181,000	82,900	18,100	86,000	187,000
Mozambique	61,000	0	43,200	36,300	140,000	83,800	42,200	42,300	168,000
Senegal	35,000	25,000	0	0	60,000	0	27,000	0	27,000
Ukraine	0	0	0	18,700	18,700	15,000	16,500	8,000	39,500
Other	10,000	0	4	40	10,100	0	4	16,400	16,400
Total	175,000	25,000	72,200	137,000	410,000	182,000	104,000	153,000	438,000
Titanium slag (2620.99.5000)									
Canada	3	42,900	47,300	55,300	146,000	0	16,000	766	16,800
Norway	0	20,000	40,000	28,500	88,500	0	40,100	20,000	60,100
South Africa	28,700	17,200	0	6,020	52,000	0	63,100	64,200	127,000
Other	0	0	(²)	0	(²)	0	0	0	0
Total	28,800	80,200	87,300	89,800	286,000	0	119,000	85,000	204,000
Rutile (2614.00.6040)									
Australia	25,200	12,400	594	39,500	77,600	33,500	628	37,500	71,600
Kenya	10,000	0	123	223	10,300	441	164	179	784
South Africa	30,400	9,770	29,600	7,710	77,400	7,240	10,100	10,900	28,400
Ukraine	0	0	10,900	2,620	13,500	0	56	3,770	3,830
Other	51	271	1,070	1	1,400	22,200	12,600	1,260	36,100
Total	65,600	22,500	42,300	50,000	180,000	63,400	23,600	53,600	141,000
Synthetic rutile (2614.00.3000)									
China	1	0	17	0	17	11	0	0	11
Sierra Leone	0	0	0	0	0	40	0	0	40
Other	0	0	0	0	0	0	(²)	2	2
Total	1	0	17	0	17	51	(²)	2	53
Titaniferous iron ore³ (2614.00.6020), Canada									
Total	0	0	0	6	6	0	0	0	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. 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	3d quarter	1st quarter– 3d quarter	
80% or more titanium dioxide (3206.11.0000)										
Australia	1,550	2,170	2,730	2,010	8,460	1,490	2,520	1,160	5,170	
Belgium	1,930	1,800	1,490	1,320	6,550	1,820	2,620	2,720	7,160	
Canada	22,800	24,800	23,300	19,200	90,200	29,600	13,900	15,800	59,400	
China	5,370	6,760	6,090	4,020	22,200	5,860	5,160	4,910	15,900	
Czechia	1,250	1,740	1,180	1,160	5,340	1,900	1,650	1,690	5,240	
Germany	3,210	3,130	3,790	2,920	13,000	3,330	4,340	2,630	10,300	
Mexico	6,890	7,930	1,250	323	16,400	676	1,770	1,800	4,250	
Spain	2,200	2,180	3,440	3,550	11,400	2,690	1,150	2,900	6,740	
United Kingdom	731	1,830	2,550	2,230	7,340	1,900	1,810	1,620	5,330	
Other	2,640 ^r	4,240 ^r	5,900 ^r	4,520 ^r	17,300 ^r	5,460 ^r	5,880 ^r	4,640	16,000	
Total	48,600	56,600	51,700	41,300	198,000	54,800	40,800	39,900	136,000	
Other titanium dioxide (3206.19.0000)										
Canada	3,830	3,800	3,870	3,350	14,800	3,750	2,840	3,610	10,200	
France	200	206	31	12	449	2	364	39	405	
Germany	61	47	46	37	191	70	374	61	505	
India	233	389	271	298	1,190	497	281	398	1,180	
Mexico	180	64	111	127	483	109	177	139	425	
Netherlands	21	(²)	136	228	386	252	321	287	860	
Other	558	780	571	382	2,290	315	475	544	1,330	
Total	5,080	5,290	5,030	4,440	19,800	5,000	4,840	5,080	14,900	
Unfinished titanium dioxide³ (2823.00.0000)										
China	1,980	1,690	1,710	1,840	7,220	3,130	1,440	1,620	6,190	
Czechia	356	223	240	280	1,100	332	598	462	1,390	
France	20	278	474	942	1,710	1,090	731	534	2,360	
Germany	403	483	331	377	1,590	330	310	485	1,130	
India	482	559	358	490	1,890	643	399	505	1,550	
Korea, Republic of	565	511	1,180	717	2,980	269	1,610	820	2,700	
Other	392	505	275	456	1,630	596	279	546	1,420	
Total	4,200	4,250	4,570	5,100	18,100	6,390	5,360	4,980	16,700	
Grand total	57,900	66,100	61,300	50,800	236,000	66,200	51,000	50,000	167,000	

¹Harmonized Tariff Schedule of the United States.

²Less than ½ unit.

³Unmixed 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	3d quarter	4th quarter	1st quarter	2d quarter	3d quarter
	Mineral concentrates¹						
Ilmenite, cost, insurance, freight, China	339	330	330	325	320	295	295
Rutile, Bagged, free on board (f.o.b.) Australian ports	1,860	1,850	1,810	1,730	1,570	1,450	1,480
Rutile, Bulk, f.o.b. Australian ports	1,330	1,330	1,280	1,250	1,170	1,130	1,130
	Titanium slag²						
Canada, import	2,140	1,060	1,110	1,000	NA	1,110	NA
Norway, import	NA	871	853	828	NA	832	794
South Africa, import	959	936	NA	928	NA	783	818
	Metal						
Sponge metal, Japan, import (dollars per kilogram) ²	13.00	13.50	14.00	13.40	12.70	12.20	11.10
Titanium mill products (producer price index ³)	211	214	217	220	236	232	233
Titanium scrap, turnings, unprocessed ([Ti-6Al-4V] [dollars per pound]) ⁴	2.25	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	2.58
	Pigment²						
80% or more titanium dioxide, import	3,110	3,150	3,220	3,200	3,170	3,300	3,130

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.