

Mineral Industry Surveys

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VANADIUM IN AUGUST 2025

The amount of vanadium in U.S. imports of select vanadium products on a gross weight basis in August 2025, excluding vanadium bearing ash and residues, was 51% less than that in July 2025 (table 1).

In August 2025, the import sources for vanadium pentoxide (V_2O_5) were South Africa, Brazil, and Germany, in descending order of gross weight quantity. In August 2025, the import sources for ferrovanadium (FeV) were Canada and South Africa, in descending order of gross weight quantity (table 2).

Prices

According to Argus Media group, Argus Non-Ferrous Markets, the monthly U.S. FeV price, 78–82% vanadium content, averaged \$13.688 per pound of contained vanadium in August 2025, a 2% decrease compared with \$14.000 per pound of contained vanadium in July 2025. Monthly FeV prices in Europe, 78–82% vanadium content, averaged \$23.519 per kilogram of contained vanadium in August 2025, a 2% decrease compared with \$23.905 per kilogram of contained vanadium in July 2025. Monthly V_2O_5 prices in China, 98% V_2O_5 content, averaged \$5.062 per pound of contained vanadium in August 2025, a 6% increase compared with \$4.768 per pound of contained vanadium in July 2025 (fig. 1).

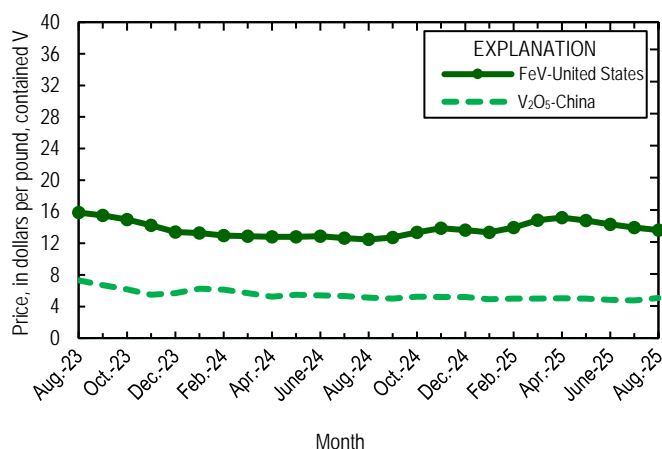


Figure 1. Average monthly prices for ferrovanadium (FeV) in the United States and vanadium pentoxide (V_2O_5) in China from August 2023 through August 2025. Source: Argus Media, Argus Non-Ferrous Markets.

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.

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Table 1. U.S. imports for consumption of vanadium 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. Source: U.S. Census Bureau (<https://usatrade.census.gov/>).]

| 2025 | | | | | | | | | | |
|--|----------------------------|--------------|--------------------|--------------------------|--------------|------------------|--------------------------|----------------|---------------------|--------------------------|
| Material | HTS ¹ codes | July | | | August | | | January–August | | |
| | | Gross weight | Vanadium content | Value (thousand dollars) | Gross weight | Vanadium content | Value (thousand dollars) | Gross weight | Vanadium content | Value (thousand dollars) |
| Vanadium ores and concentrates | 2615.90.6090 | 2,980 | 1,790 ² | 237,000 | 0 | 0 | 0 | 213,000 | 90,600 ² | 1,220,000 |
| Vanadium bearing ash and residues ³ | 2620.40.0030, 2620.99.1000 | NA | NA | 23,800 | 477 | 24 ² | 2,000 | 477 | 24 ² | 1,300,000 |
| Total | — | — | — | 261,000 | 477 | 24 ² | 2,000 | 213,000 | 90,600 ² | 2,520,000 |
| Ferrovandium | 7202.92.0000 | 280,000 | 222,000 | 7,120,000 | 120,000 | 95,500 | 6,560,000 | 1,750,000 | 1,360,000 | 58,400,000 |
| Vanadium metal, including waste and scrap | 8112.92.7000 | 6,600 | 6,280 | 121,000 | 736 | 632 | 180,000 | 18,000 | 17,100 | 1,280,000 |
| Vanadium and articles thereof ⁴ | 8112.99.2000 | 502 | 501 | 39,300 | 108 | 108 | 7,220 | 8,750 | 6,010 | 289,000 |
| Total | — | 287,000 | 229,000 | 7,280,000 | 120,000 | 96,200 | 6,740,000 | 1,770,000 | 1,390,000 | 60,000,000 |
| Chemical compounds | | | | | | | | | | |
| Vanadium pentoxide (anhydride) | 2825.30.0010 | 219,000 | 184,000 | 2,650,000 | 208,000 | 143,000 | 2,400,000 | 1,670,000 | 1,170,000 | 23,300,000 |
| Vanadium oxides and hydroxides, other | 2825.30.0050 | 110,000 | 71,400 | 1,390,000 | 0 | 0 | 0 | 410,000 | 267,000 | 6,010,000 |
| Vanadium chlorides | 2827.39.1000 | 510 | 510 | 12,600 | 2,880 | 2,740 | 38,900 | 13,200 | 12,700 | 360,000 |
| Vanadium chloride oxide and chloride hydroxide | 2827.49.1000 | 0 | 0 | 0 | 0 | 0 | 0 | 73,400 | 73,400 | 905,000 |
| Vanadium sulfates | 2833.29.3000 | 0 | 0 | 0 | 0 | 0 | 0 | 36,800 | 35,200 | 121,000 |
| Vanadates | 2841.90.1000 | 0 | 0 | 0 | 0 | 0 | 0 | 15,000 | 1,050 | 333,000 |
| Hydrides and nitrides of vanadium | 2850.00.2000 | 137,000 | 108,000 | 662,000 | 36,900 | 29,600 | 225,000 | 290,000 | 233,000 | 2,050,000 |
| Total | — | 466,000 | 364,000 | 4,710,000 | 248,000 | 175,000 | 2,660,000 | 2,510,000 | 1,790,000 | 33,000,000 |

¹Harmonized Tariff Schedule codes of the United States.

²Data are in kilograms of vanadium pentoxide equivalent.

³U.S. Census Bureau has suppressed quantity data for some months; not included in “Total”.

⁴Aluminum-vanadium master alloy consisting of 35% aluminum and 64.5% vanadium.

Table 2. U.S. imports and exports of ferrovanadium, other oxides and hydroxides of vanadium, vanadium ores and concentrates, and vanadium pentoxide (anhydride).

[Data are rounded to no more than three significant digits; may not add to totals shown. Presentation of monthly data is based on the quantities (gross weight or contained weight) of the five leading countries or localities in August. Data are in kilograms, gross and contained weight. NA, not available, —, not applicable. Source: U.S. Census Bureau (<https://usatrade.census.gov/>).]

| 2025 | | | | | | | |
|---|---|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|
| Country or locality | HTS ¹ codes and Schedule B numbers | July | | August | | January–August | |
| | | Gross weight | Vanadium content | Gross weight | Vanadium content | Gross weight | Vanadium content |
| Imports for consumption | | | | | | | |
| Vanadium ores and concentrates | | | | | | | |
| Mexico | | 2,980 | 1,790 ² | 0 | 0 | 63,300 | 37,800 ² |
| Other [2 countries and (or) localities] | 2615.90.6090 | 0 | 0 | 0 | 0 | 149,000 | 52,800 ² |
| Total | | 2,980 | 1,790 ² | 0 | 0 | 213,000 | 90,600 ² |
| Vanadium pentoxide (anhydride) ³ | | | | | | | |
| Brazil | | 141,000 | 140,000 | 80,000 | 71,200 | 872,000 | 721,000 |
| China | | 10,200 | 5,820 | 0 | 0 | 20,400 | 11,600 |
| Germany | | 0 | 0 | 8,150 | 4,660 | 29,900 | 17,100 |
| South Africa | 2825.30.0010 | 68,000 | 37,900 | 120,000 | 66,900 | 728,000 | 405,000 |
| Other [3 countries and (or) localities] | | 0 | 0 | 0 | 0 | 18,100 | 16,600 |
| Total | | 219,000 | 184,000 | 208,000 | 143,000 | 1,670,000 | 1,170,000 |
| Other oxides and hydroxides of vanadium | | | | | | | |
| Brazil | | 110,000 | 71,400 | 0 | 0 | 390,000 | 253,000 |
| Other [3 countries and (or) localities] | 2825.30.0050 | 0 | 0 | 0 | 0 | 20,000 | 13,300 |
| Total | | 110,000 | 71,400 | 0 | 0 | 410,000 | 267,000 |
| Ferrovanadium | | | | | | | |
| Austria | | 43,000 | 34,700 | 0 | 0 | 291,000 | 220,000 |
| Canada | | 178,000 | 140,000 | 119,000 | 95,400 | 1,200,000 | 933,000 |
| India | | 10,900 | 8,710 | 0 | 0 | 118,000 | 93,900 |
| Japan | 7202.92.0000 | 48,200 | 39,300 | 0 | 0 | 110,000 | 89,700 |
| South Africa | | 0 | 0 | 136 | 109 | 408 | 327 |
| Other [4 countries and (or) localities] | | 0 | 0 | 0 | 0 | 31,300 | 25,500 |
| Total | | 280,000 | 222,000 | 120,000 | 95,500 | 1,750,000 | 1,360,000 |
| Exports | | | | | | | |
| Vanadium ores and concentrates | | | | | | | |
| Taiwan | | 13,400 | NA | 0 | 0 | 13,400 | NA |
| Other [3 countries and (or) localities] | 2615.90.6090 | 0 | 0 | 0 | 0 | 11,900 | NA |
| Total | | 13,400 | — | 0 | 0 | 25,400 | — |
| Vanadium pentoxide (anhydride) ³ | | | | | | | |
| Belgium | | 0 | 0 | NA | 13,500 | NA | 67,500 |
| India | | NA | 10,000 | 0 | 0 | NA | 24,800 |
| Other [1 country and (or) locality] | 2825.30.0010 | 0 | 0 | 0 | 0 | NA | 5,020 |
| Total | | — | 10,000 | — | 13,500 | — | 97,300 |
| Other oxides and hydroxides of vanadium | | | | | | | |
| Canada | | NA | 400 | 0 | 0 | NA | 217,000 |
| Germany | | NA | 567 | 0 | 0 | NA | 1,070 |
| India | 2825.30.0050 | NA | 6,000 | 0 | 0 | NA | 6,000 |
| Other [1 country and (or) locality] | | 0 | 0 | 0 | 0 | NA | 702 |
| Total | | — | 6,970 | 0 | 0 | — | 224,000 |
| Ferrovanadium | | | | | | | |
| Mexico | | 68 | 51 | 0 | 0 | 204 | 153 |
| Other [2 countries and (or) localities] | 7202.92.0000 | 0 | 0 | 0 | 0 | 2,200 | 1,650 |
| Total | | 68 | 51 | 0 | 0 | 2,400 | 1,800 |

¹Harmonized Tariff Schedule codes of the United States are imports and Schedule B numbers of the United States are exports.

²Data are in kilograms of vanadium pentoxide equivalent.

³May include catalysts containing vanadium pentoxide.

Table 3. U.S imports and exports of aluminum vanadium master alloy, vanadium bearing ash and residues, vanadium sulfates, vanadates, vanadium metal, and U.S. imports
[Data are rounded to no more than three significant digits; may not add to totals shown. Presentation of monthly data is based on the quantities (gross weight or contained weight) of the leading countries and (or) localities in August. Data are in kilograms, gross and contained weight. NA, not available, —, not applicable. Source: U.S. Census Bureau (<https://usatrade.census.gov/>.)]

| 2025 | | | | | | | |
|--|---|--------------|------------------|--------------|------------------|----------------|------------------|
| Country or locality | HTS ¹ codes and Schedule B numbers | July | | August | | January–August | |
| | | Gross weight | Vanadium content | Gross weight | Vanadium content | Gross weight | Vanadium content |
| Imports for consumption | | | | | | | |
| Slag, from the manufacture of iron and steel | | | | | | | |
| Austria | | 0 | 0 | 1,160 | NA | 1,160 | NA |
| Canada | | 1,200,000 | NA | 20,000,000 | NA | 80,200,000 | NA |
| Mexico | 2619.00.9000 | 16,500 | NA | 34,700 | NA | 636,000 | NA |
| Other [3 countries and (or) localities] | | 0 | 0 | 0 | 0 | 22,100 | NA |
| Total | | 1,220,000 | — | 20,000,000 | — | 80,900,000 | — |
| Vanadium bearing ash and residues | | | | | | | |
| Romania | 2620.40.0030, 2620.99.1000 | 0 | 0 | 477 | 24 | 477 | 24 |
| Vanadium sulfates | | | | | | | |
| Australia | | 0 | 0 | 0 | 0 | 34,000 | 33,300 |
| China | 2833.29.3000 | 0 | 0 | 0 | 0 | 2,800 | 1,860 |
| Total | | 0 | 0 | 0 | 0 | 36,800 | 35,200 |
| Vanadates | | | | | | | |
| Germany | 2841.90.1000 | 0 | 0 | 0 | 0 | 15,000 | 1,050 |
| Vanadium metal, including waste and scrap and aluminum-vanadium master alloy | | | | | | | |
| Canada | | 0 | 0 | 649 | 545 | 2,420 | 2,270 |
| China | | 66 | 65 | 87 | 87 | 8,170 | 5,430 |
| Germany | 8112.92.7000, 8112.99.2000 | 6,600 | 6,280 | 0 | 0 | 7,420 | 7,050 |
| Mexico | | 436 | 436 | 108 | 108 | 668 | 668 |
| Other [2 countries and (or) localities] | | 0 | 0 | 0 | 0 | 8,130 | 7,740 |
| Total | | 7,110 | 6,790 | 844 | 740 | 26,800 | 23,200 |
| Exports | | | | | | | |
| Vanadium bearing ash and residues | | | | | | | |
| Belgium | | 5,160 | NA | 0 | 0 | 29,200 | NA |
| Korea, Republic of | | 200,000 | 0 | 462,000 | NA | 693,000 | NA |
| Mexico | 2620.50.0000, 2620.99.1000 | 0 | 0 | 20,000 | NA | 20,000 | NA |
| Netherlands | | 38,500 | NA | 0 | 0 | 125,000 | NA |
| Other [3 countries and (or) localities] | | 0 | 0 | 0 | 0 | 293,000 | NA |
| Total | | 244,000 | — | 482,000 | — | 1,160,000 | — |
| Hydrides and nitrides of vanadium | | | | | | | |
| China | | 5 | 5 | 0 | 0 | 9,260 | 8,580 |
| Germany | | 126,000 | 100,000 | 26,400 | 21,300 | 216,000 | 173,000 |
| Ireland | | 10,300 | 8,160 | 10,500 | 8,330 | 20,900 | 16,500 |
| Israel | 2850.00.2000 | 1 | 1 | 0 | 0 | 1 | 1 |
| South Africa | | 8 | 6 | 0 | 0 | 34,100 | 26,900 |
| Other [2 countries and (or) localities] | | 0 | 0 | 0 | 0 | 9,660 | 7,720 |
| Total | | 137,000 | 108,000 | 36,900 | 29,600 | 290,000 | 233,000 |
| Vanadium metal, including waste and scrap and aluminum-vanadium master alloy | | | | | | | |
| France | | 136 | NA | 0 | 0 | 347 | NA |
| Poland | | 0 | 0 | 0 | 0 | 2,430 | NA |
| Romania | | 335 | NA | 1,050 | NA | 2,700 | NA |
| Taiwan | | 238 | NA | 50 | NA | 50 | NA |
| Turks and Caicos Islands | 8112.92.7000, 8112.99.2000 | 0 | 0 | 208 | NA | 208 | NA |
| United Kingdom | | 100 | NA | 124 | 0 | 10,100 | NA |
| Vietnam | | 0 | 0 | 950 | NA | 950 | NA |
| Other [3 countries and (or) localities] | | 0 | 0 | 0 | 0 | 8,560 | NA |
| Total | | 809 | — | 2,380 | — | 25,300 | — |

¹Harmonized Tariff Schedule codes of the United States are imports and Schedule B numbers of the United States are exports.