

Mineral Industry Surveys

For information, contact:

Robert G. Reese, Jr., Vanadium Commodity Specialist
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4981, Fax: (703) 648-7757
E-mail: rreese@usgs.gov

Adam Wario (Data)
Telephone: (703) 648-7972
Fax: (703) 648-7975

Internet: <http://minerals.usgs.gov/minerals>

VANADIUM IN MAY 2002

According to Metal Bulletin, U.S. ferrovanadium prices during May ranged from \$3.30 to \$4.25 per pound of vanadium content, compared with \$3.25 to \$3.60 in April. The range for European ferrovanadium prices in May was \$7.90 to \$9.00 per kilogram of vanadium content. In April, European ferrovanadium ranged from \$6.50 to \$8.25 per kilogram of vanadium content. For vanadium pentoxide, the May range was \$1.35 to \$1.65 per pound.

Update

In late June, the U.S. Department of Commerce (DOC)

issued preliminary dumping duties against ferrovanadium imports from China and South Africa (American Metal Market, 2002). Preliminary duties on ferrovanadium imports from the two countries ranged from 37.29% to 78.52%. DOC is expected to make a final determination of margins by late November 2002.

Reference Cited

American Metal Market, 2002, Preliminary ferrovanadium duties set vs. two nations: American Metal Market, v. 110, no. 74-5, June 28, p. 1-2.

TABLE 1
U.S. CONSUMPTION AND CONSUMER STOCKS OF VANADIUM, BY FORM 1/

(Kilograms, contained vanadium)

	2001 p/		2002			
	Consumption	Stocks	April		May	
			Consumption	Stocks	Consumption	Stocks
Ferrovandium 2/	2,800,000	245,000	242,000	251,000 r/	236,000	264,000
Vanadium-aluminum alloy	W	10,500	W	9,260 r/	W	8,530
Other 3/	484,000	7,910	35,900	6,850 r/	35,800	6,850
Total	3,280,000	264,000	278,000	267,000	272,000	279,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes other vanadium-iron-carbon alloys as well as vanadium oxides added directly to steel.

3/ Includes other vanadium alloys, vanadium metal, vanadium pentoxide, vanadates, chlorides, other specialty chemicals, and items indicated by symbol W.

TABLE 2
U.S. CONSUMPTION OF VANADIUM, BY END USE 1/

(Kilograms, contained vanadium)

	2001 p/	2002		
		April	May	Year to date
Steel:				
Carbon	997,000	62,800	75,900	350,000
High-strength low-alloy	769,000	W	W	W
Stainless and heat-resisting	26,300	W	W	W
Full alloy	701,000	79,600	62,900	337,000
Tool	261,000	24,700	18,900	126,000
Total steel	2,750,000	238,000	232,000	1,170,000
Superalloys	16,000	923	1,150	5,180
Miscellaneous and unspecified 2/	514,000	39,100	38,300	192,000
Total consumption	3,280,000	278,000	272,000	1,370,000

p/ Preliminary. W Withheld to avoid disclosing company proprietary data; included with "Total steel."

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Includes cast irons, alloys excluding steel and superalloys, chemical and ceramic uses, and other miscellaneous and unspecified uses.

TABLE 3
U.S. IMPORTS AND EXPORTS OF ALUMINUM-VANADIUM MASTER ALLOY AND
VANADIUM METAL, INCLUDING WASTE AND SCRAP 1/

(Kilograms, gross weight)

	Aluminum-vanadium master alloy		Vanadium metal, including waste and scrap	
	Quantity	Value	Quantity	Value
Imports for consumption:				
2001	10,100	\$45,100	50,000	\$639,000
2002:				
February	--	--	2,720	28,900
March	39,900	77,400	110	61,300
April:				
Netherlands	19,000	59,500	--	--
Year to date	58,900	137,000	2,910	133,000
Exports:				
2001	363,000	6,990,000	26,300	380,000
2002:				
February	62,200	1,550,000	656	14,900
March	53,700	1,010,000	796	38,500
April:				
Belgium	18,000	209,000	--	--
Canada	22,700	668,000	3,080	65,400
Ecuador	117	3,440	--	--
Germany	273	5,290	--	--
Japan	10,600	153,000	--	--
Mexico	4,380	120,000	--	--
Taiwan	--	--	19	3,420
Total	56,100	1,160,000	3,100	68,800
Year to date	225,000	4,800,000	7,160	245,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS AND EXPORTS OF FERROVANADIUM, VANADIUM PENTOXIDE (ANHYDRIDE) AND
OTHER OXIDES AND HYDROXIDES OF VANADIUM 1/

(Kilograms, contained vanadium)

	Ferrovanadium		Vanadium pentoxide (anhydride) 2/		Other oxides and hydroxides of vanadium	
	Quantity	Value	Quantity	Value	Quantity	Value
Imports for consumption:						
2001	2,550,000	\$20,500,000	600,000	\$3,460,000	1,080,000	\$510,000
2002:						
February	157,000	1,030,000	--	--	8,660	78,300
March	176,000	1,120,000	--	--	--	--
April:						
Canada	82,600	488,000	--	--	--	--
China	24,800	163,000	--	--	--	--
Czech Republic	106,000	728,000	--	--	--	--
Germany	--	--	1	10,900	3,930	78,300
Italy	--	--	--	--	54	2,880
South Africa	--	--	19,800	150,000	--	--
United Kingdom	16,300	93,300	--	--	8,900	151,000
Total	229,000	1,470,000	19,800	161,000	12,900	232,000
Year to date	816,000	5,520,000	123,000	396,000	21,500	310,000

See footnotes at end of table.

TABLE 4--Continued
U.S. IMPORTS AND EXPORTS OF FERROVANADIUM, VANADIUM PENTOXIDE (ANHYDRIDE) AND
OTHER OXIDES AND HYDROXIDES OF VANADIUM 1/

(Kilograms, contained vanadium)

	Ferrovanadium		Vanadium pentoxide (anhydride) 2/		Other oxides and hydroxides of vanadium	
	Quantity	Value	Quantity	Value	Quantity	Value
Exports:						
2001	70,000	\$768,000	71,400	\$407,000	63,000	\$562,000
2002:						
February	11,200	124,000	--	--	62,600	302,000
March	12,100	98,500	--	--	12,100	99,900
April:						
Canada	10,200	82,100	--	--	4,260	42,900
Colombia	376	4,650	--	--	--	--
Italy	--	--	3,160	30,000	--	--
Mexico	511	9,850	5,000	24,200	--	--
Spain	--	--	--	--	--	--
Total	11,100	96,600	8,160	54,200	4,260	42,900
Year to date	38,800	388,000	28,400	152,000	82,000	476,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ May include catalysts containing vanadium pentoxide.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF VANADIUM-BEARING ASH, SLAG 1/

(Kilograms, contained vanadium pentoxide)

	Ash and residues		Ash and residues (not from the manufacture of iron and steel)		Slag, from the manufacture of iron and steel	
	Quantity	Value	Quantity	Value	Quantity	Value
2001	1,980,000	\$2,270,000	1,980,000	\$1,290,000	998,000	\$1,170,000
2002:						
February	--	--	189,000	94,100	--	--
March	--	--	160,000	72,300	--	--
April:						
Canada	--	--	158,000	69,800	--	--
Year to date	--	--	683,000	322,000	480,000	75,200

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MISCELLANEOUS
VANADIUM CHEMICALS 1/

(Kilograms, contained vanadium)

	Sulfates		Vanadates	
	Quantity	Value	Quantity	Value
2001	--	--	102,000	\$623,000
2002:				
February	--	--	12,500	124,000
March	11	7,590	3,010	19,700
April:				
Germany	--	--	124	5,470
South Africa	1,430	37,400	--	--
Total	1,430	37,400	124	5,470
Year to date	1,440	45,000	28,000	264,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.