

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 MARCH 2002

According to Metal Bulletin, U.S. ferrovanadium prices during March ranged from \$3.40 to \$3.70 per pound of vanadium content, compared with \$3.40 to \$3.80 in February. The range for European ferrovanadium prices in March was \$6.15 to \$7.00 per kilogram of vanadium content. In February, European ferrovanadium ranged from \$6.15 to \$6.30 per kilogram of vanadium content. For vanadium pentoxide, the March range was \$1.03 to \$1.08 per pound.

Strategic Minerals Corp. (Stratcor) announced the formation of a wholly owned subsidiary called Stratcor Performance Materials Inc. (Ryan's Notes, 2002a). The new subsidiary will market high-purity specialty vanadium products, and is expected to help reduce Stratcor's dependence on vanadium

commodity markets.

The Government of Sweden completely sold its stockpile of metals and ferroalloys, including ferrovanadium (Ryan's Notes, 2002b). Treibacher Industrie AG purchased the ferroalloys portion of the stockpile which held 230 metric tons of ferrovanadium.

References Cited

- Ryan's Notes, 2002a, Stratcor to focus on specialty V products: Ryan's Notes, v. 8, no 11, March 18, p. 2.
Ryan's Notes, 2002b, [Untitled]: Ryan's Notes, v. 8, no. 10, March 11, p. 3.

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

(Kilograms, contained vanadium)

	2001 p/		2002			
	Consumption	Stocks	February		March	
			Consumption	Stocks r/	Consumption	Stocks
Ferrovandium 2/	2,800,000	245,000	229,000 r/	253,000	221,000	236,000
Vanadium-aluminum alloy	W	10,500	W	10,900	W	10,200
Other 3/	484,000	7,910	35,300	8,160	36,000	7,620
Total	3,280,000	264,000	264,000 r/	272,000	257,000	254,000

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		
		February	March	Year to date
Steel:				
Carbon	997,000	80,500 r/	60,500	208,000
High-strength low-alloy	769,000	W	W	W
Stainless and heat-resisting	26,300	W	W	W
Full alloy	701,000	50,600 r/	63,700	180,000
Tool	261,000	32,800	28,900	82,000
Total steel	2,750,000	225,000 r/	217,000	663,000
Superalloys	16,000	846	1,050	3,110
Miscellaneous and unspecified 2/	514,000	38,500	39,000	114,000
Total consumption	3,280,000	264,000 r/	257,000	781,000

p/ Preliminary. r/ Revised. 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:				
January	--	--	75	42,900
February:				
Germany	--	--	2,720	28,900
Year to date	--	--	2,800	71,700
Exports:				
2001	363,000	6,990,000	26,300	380,000
2002:				
January	52,500	1,080,000	2,610	122,000
February:				
Belgium	246	7,230	--	--
Canada	28,000	824,000	--	--
Israel	3,380	47,000	--	--
Japan	17,300	281,000	540	7,650
Korea	--	--	116	7,230
Mexico	12,100	357,000	--	--
Singapore	988	29,000	--	--
United Kingdom	85	2,510	--	--
Total	62,200	1,550,000	656	14,900
Year to date	115,000	2,630,000	3,270	137,000

-- 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:						
January	254,000	1,900,000	103,000	235,000	--	--
February:						
Austria	7,970	56,700	--	--	--	--
Canada	8,980	70,200	--	--	--	--
Czech Republic	110,000	686,000	--	--	--	--
Germany	--	--	--	--	8,660	78,300
South Africa	29900	220000	--	--	--	--
Total	157000	1030000	--	--	8,660	78,300
Year to date	411,000	2,930,000	103,000	235,000	8,660	78,300
Exports:						
2001	70,000	768,000	71,400	407,000	63,000	562,000
2002:						
January	4,440	68,500	20,200	98,100	3,050	31,200
February:						
Canada	10,100	87,700	--	--	2,290	22,600
Chile	--	--	--	--	60,300	279,000
Mexico	1,090	36,200	--	--	--	--
Total	11,200	124,000	--	--	62,600	302,000
Year to date	15,600	192,000	20,200	98,100	65,600	333,000

-- 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:						
January	--	--	176,000	85,800	480,000	75,200
February:						
Canada	--	--	178,000	80,500	--	--
United Kingdom	--	--	10,900	13,600	--	--
Total	--	--	189,000	94,100	--	--
Year to date	--	--	365,000	180,000	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:				
January:	--	--	12,400	115,000
February:				
Germany	--	--	189	2,910
South Africa	--	--	12,300	112,000
Total	--	--	12,500	124,000
Year to date	--	--	24,900	239,000

-- Zero.

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

Source: U.S. Census Bureau.