

Mineral Industry Surveys

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VANADIUM IN DECEMBER 2001

According to Metal Bulletin, U.S. ferrovanadium prices during December ranged from \$3.60 to \$3.90 per pound of vanadium content, compared with \$3.70 to \$4.00 in November. The range for European ferrovanadium prices in December was \$6.25 to \$6.75 per kilogram of vanadium content. In November, European ferrovanadium ranged from \$6.60 to \$7.40. For vanadium pentoxide, the December range was \$1.10 to \$1.25 per pound.

Update

On January 10, the International Trade Commission announced that the U.S. ferrovanadium industry was being

materially injured or could be materially injured by ferrovanadium imports from China and South Africa (Ryan's Notes, 2002). The ruling was in response to the antidumping petition filed by the Ferroalloys Association in late November 2001. The antidumping action next moves to the U.S. Department of Commerce for determination of dumping margins and costs of production.

Reference Cited

Ryan's Notes, 2002, [untitled]: Ryan's Notes, v. 8, no. 3, January 21, p. 3.

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

(Kilograms, contained vanadium)

	2000		2001			
	Consumption	Stocks	November		December	
			Consumption	Stocks r/	Consumption	Stocks
Ferrovandium 2/	3,460,000	228,000	198,000 r/	211,000	176,000	205,000
Vanadium-aluminum alloy	W	9,800	W	9,070	W	8,830
Other 3/	403,000	7,350	49,600	6,800	49,600	6,620
Total	3,860,000	245,000	247,000 r/	227,000	225,000	221,000

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)

	2000	2001		
		November	December	Year to date
Steel:				
Carbon	1,220,000	67,400	50,700	997,000
High-strength low-alloy	981,000	W	W	W
Stainless and heat-resisting	68,000	W	W	W
Full alloy	866,000	46,300 r/	44,400	708,000
Tool	303,000	23,300	19,900	261,000
Total steel	3,440,000	194,000 r/	172,000	2,770,000
Superalloys	16,800	1,230	803	16,000
Miscellaneous and unspecified 2/	409,000	51,800	52,000	514,000
Total consumption	3,860,000	247,000 r/	225,000	3,300,000

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:				
2000	16,400	\$83,200	44,800	\$939,000
2001:				
September	--	--	10,000	66,400
October	--	--	379	98,600
November:				
Germany	--	--	31	16,800
Year to date	3,710	17,600	30,400	611,000
Exports:				
2000	677,000	9,120,000	105,000	1,680,000
2001:				
September	26,100	511,000	7,870	96,600
October	45,600	895,000	1,810	19,600
November:				
Canada	14,200	419,000	--	--
El Salvador	178	5,250	--	--
Israel	3,780	64,200	--	--
Japan	1,540	27,200	--	--
Total	19,700	515,000	--	--
Year to date	350,000	6,710,000	24,400	339,000

-- 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:						
2000	2,510,000	\$24,900,000	902,000	\$6,260,000	13,500	\$231,000
2001:						
September	220,000	1,760,000	40,400	240,000	--	--
October	328,000	2,650,000	50,000	324,000	1,050,000	248,000
November:						
Austria	16,000	124,000	--	--	--	--
Canada	23,500	187,000	--	--	--	--
South Africa	116,000	921,000	20,000	84,000	--	--
United Kingdom	15,600	120,000	10,400	15,200	--	--
Total	171,000	1,350,000	30,400	99,100	--	--
Year to date	2,380,000	19,300,000	560,000	3,170,000	1,080,000	510,000
Exports:						
2000	172,000	2,360,000	653,000	3,360,000	99,800	741,000
2001:						
September	301	6,980	2,990	34,200	4,940	47,500
October	2,250	27,600	--	--	2,150	16,900
November:						
Australia	--	--	35	3,190	--	--
Canada	--	--	--	--	2,130	19,800
United Kingdom	--	--	--	--	324	2,880
Total	--	--	35	3,190	2,450	22,600
Year to date	56,900	651,000	51,000	315,000	61,900	548,000

-- 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
2000	2,420,000	\$2,210,000	4,100,000	\$1,680,000	959,000	\$1,650,000
2001:						
September	75,200	39,800	114,000	105,000	340,000	404,000
October	128,000	238,000	37,000	86,100	--	--
November:						
Canada	24,200	10,100	21,300	64,700	--	--
Mexico	27,300	18,400	--	--	--	--
Spain	4,040	6,000	--	--	--	--
United Kingdom	99,800	88,800	--	--	--	--
Total	155,000	123,000	21,300	64,700	--	--
Year to date	1,730,000	1,990,000	1,910,000	1,280,000	998,000	1,170,000

-- Zero.

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

Source: U.S. Census Bureau.

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

(Kilograms, contained vanadium)

	Sulfates		Vanadates	
	Quantity	Value	Quantity	Value
2000	872	\$31,000	148,000	\$1,040,000
2001:				
September	--	--	--	--
October	--	--	--	--
November:				
Germany	--	--	20	3,880
South Africa	--	--	6,230	56,100
Total	--	--	6,250	60,000
Year to date	--	--	102,000	617,000

-- Zero.

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

Source: U.S. Census Bureau.