

Mineral Industry Surveys

For information, contact:

Kim B. Shedd, Cobalt Commodity Specialist National Minerals Information Center U.S. Geological Survey 989 National Center Reston, VA 20192

Telephone: (703) 648-4974, Fax: (703) 648-7757

Email: kshedd@usgs.gov

Annie Hwang (Data) Telephone: (703) 648-7952 Fax: (703) 648-7975 Email: ahwang@usgs.gov

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

COBALT IN OCTOBER 2018

The amount of cobalt contained in U.S. imports of cobalt metals and chemicals in January through October 2018 was 6% more than that imported during the same period in 2017 (table 2). The amount of cobalt contained in U.S. exports of unwrought cobalt and chemicals in January through October 2018 was 48% more than that exported during the same period in 2017 (table 4).

Prices

In October, the monthly average U.S. spot cobalt price increased 14% from that in September 2018 and was 26% higher than that in October 2017. The monthly average LME cash mean price decreased 5% from that in September 2018 and was slightly lower than that in October 2017. The following listed prices are for cobalt metal in October, in dollars per pound.

Type Price range Average price U.S. spot¹ 36.00–38.00 37.13 LME cash mean² 24.83–28.24 26.70

¹Source: Platts Metals Week, minimum 99.8% cobalt cathode.

²London Metal Exchange, mean of the cash buyer and cash seller price, minimum 99.3% cobalt briquettes, cathode, ingot, or rounds (converted from dollars per metric ton and rounded to the nearest cent).

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$\label{eq:table 1} \textbf{TABLE 1}$ REPORTED CONSUMPTION AND STOCKS OF COBALT MATERIALS 1

(Metric tons, contained cobalt)

		Stocks, end of period							
		LME ^{3,5}							
	Consumption,	U.S.	U.S.	U.S.	Non-U.S.				
Period	U.S. industry ^{p, 2}	industry ^{p, 2}	Government ^{3, 4}	warehouse	warehouse	Total			
2017:	•	•							
October	724	985	302	167	583	750			
November	701	977	302	163	562	725			
December	705	996	302	160	420	580			
January-October	7,310 ^r	985	302	167	583	750			
January–December ⁶	8,710	996	302	160	420	580			
2018:									
January	717	1,000	302	159	385	544			
February	697	1,010	302	159	360	519			
March	746	962	302	141	397	538			
April	742	934	302	141	446	587			
May	NA	NA	302	139	471	610			
June	NA	NA	302	135	501	636			
July	NA	NA	302	131	520	651			
August	NA	NA	302	131	559	690			
September	NA	NA	302	131	592	723			
October	NA	NA	302	130	611	741			
January-October	NA	NA	302	130	611	741			

^pPreliminary. ^rRevised. NA Not available.

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

²Data for cobalt metal, metal powder, oxide and other chemical compounds, and scrap reported by U.S. cobalt processors and consumers. Includes estimates.

³Cobalt metal.

⁴Data from Defense Logistics Agency Strategic Materials.

⁵London Metal Exchange.

⁶U.S. industry data based on monthly reports.

 $\label{eq:table 2} \textbf{U.S. IMPORTS FOR CONSUMPTION OF COBALT, BY COUNTRY OR LOCALITY}^1$

	Metals ²		Oxides and hydroxides		Salts and compounds ³		Total cobalt	Cobalt content,
Period and country or	Gross weight	Value ⁴	Gross weight	Value ⁴	Gross weight	Value ⁴	content for the period ⁵	year to date ^{5, 6}
locality of origin	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(metric tons)
2017:				*				
October	875	\$51,900	104	\$4,670	187	\$2,730	1,000	9,850
November	1,090	63,800	250	10,900	187	3,450	1,340	11,200
December	507	28,300	201	9,330	218	3,430	723	11,900
January-October	7,930 ^r	373,000	1,660	56,400	2,290	27,300	9,850 ^r	XX
January–December	9,530	465,000	2,120	76,600	2,690	34,200	11,900	XX
2018:								
January	1,150	70,900	135	6,220	345	4,790	1,350	1,350
February	902	62,500	176	9,700	271	2,970	1,110	2,470
March	782	47,500	304	17,000	933	6,980	1,280	3,750
April	922	71,600	149	8,700	454	4,900	1,180	4,930
May	731	51,300	172	9,950	225	3,070	933	5,860
June	767	54,700	122	7,620	832	5,400	1,100	6,960
July	577	43,000	133	7,820	204	1,170	731	7,690
August	674	48,400	56	2,880	35	484	724	8,410
September	604	38,500	122	6,680	551	3,850	851	9,260
October:		<u> </u>				· · · · · · · · · · · · · · · · · · ·		
Australia								578
Belgium	1	121	52	2,820			39	407
Brazil								150
Canada	146	8,820	1	39			147	1,370
China	6	466	13	473	86	904	39	1,190
Finland	103	6,980	25	993	211	2,280	183	1,560
France	(7)	15				2,200	(7)	14
Germany	1	24					1	34
Hong Kong		2-						46
India India					20	303	5	12
Italy								10
	 161	11,500					 161	1,640
Japan Korea, Republic of	(7)	11,500	10	347			7	1,040
				347				693
Madagascar	126	9,230					126	
Morocco	20	1,470					20	200
Netherlands								4
Norway	228	16,000					228	1,420
Peru								4
Russia	124	8,760					124	396
South Africa	48	438					48	274
Taiwan								22
United Kingdom	1	59	10	500	21	98	14	375
Other	2	42					2	5
Total	968	63,900	112	5,170	338	3,590	1,140	10,400
January–October Revised. XX Not applicate	8,080	552,000	1,480	81,800	4,190	37,200	10,400	XX

^rRevised. XX Not applicable. -- Zero.

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

²Unwrought cobalt, excluding alloys; includes cobalt cathode and cobalt metal powder; may include intermediate products of cobalt metallurgy.

³Includes cobalt acetates, cobalt carbonates, cobalt chlorides, and cobalt sulfates.

⁴Customs value.

⁵Estimated from gross weights.

⁶May include revisions to previously published data.

⁷Less than ½ unit.

 ${\it TABLE~3}$ U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS, BY COUNTRY OR LOCALITY 1

	Unwrought cobalt alloys		Cohalt weat	and some	Wrought cobalt and			
				Cobalt waste and scrap		cobalt articles		
Dania 4 and anomaton an	Gross weight	2	Gross weight	2	Gross weight	2		
Period and country or	_	Value ²	-	Value ²	-	Value ²		
locality of origin	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(thousands)		
2017:	4.5	#2.110	101	#2. 7 00	10	# 2.7 00		
October	45	\$2,110	181	\$2,790	13	\$2,780		
November	27	1,260	103	1,100	20	3,040		
December	50	2,270	124	2,060	15	2,750		
January-October	341	14,900	1,320 ^r	20,100 r	173 ^r	24,700		
January–December	418	18,400	1,550	23,300	208	30,500		
2018:								
January	42	2,040	198	3,090	19	3,330		
February	63	3,230	161	2,780	22	2,870		
March	38	2,070	258	3,650	41	4,760		
April	45	2,550	164	3,760	21	2,600		
May	85	4,150	207	3,190	51	4,850		
June	38	2,480	212	3,860	24	3,350		
July	26	1,770	226	4,080	24	4,050		
August	25	1,720	179	2,880	23	2,830		
September	24	1,580	186	2,890	32	3,620		
October:								
Belgium	3	199			(3)	5		
Canada	(3)	2	16	100	8	1,490		
China					1	276		
Finland	1	126						
France	(3)	25	18	516	5	195		
Germany	3	247			(3)	208		
Ireland			58	527	(3)	97		
Japan	(3)	25	15	267	(3)	11		
Mexico			1	16	(3)	25		
Norway	12	501			(3)	20		
Switzerland			1	2	(3)	93		
Taiwan			3	116	(3)	2		
Tunisia	(3)	8	10	91	(3)	52		
United Kingdom	20	1,230	142	2,530	20	1,290		
Other	(3)	21	(3)	3	(3)	115		
Total	41	2,380	264	4,170	35	3,880		
January-October	427	24,000	2,050	34,300	293	36,100		

Revised. -- Zero.

 $^{^{1}\}mathrm{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

²Customs value.

³Less than ½ unit.

 $\label{eq:table 4} \textbf{U.S. EXPORTS OF COBALT MATERIALS}^1$

	Unwrought co	balt, powders,						Cobalt
	matte, waste and scrap ²		Oxides and	Oxides and hydroxides		Salts and compounds ³		content,
	Gross		Gross		Gross		content for	year to
	weight	Value ⁴	weight	Value ⁴	weight	Value ⁴	the period ⁵	date ^{5, 6}
Period	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(metric tons)
2017:								
October	485	\$13,600	7	\$235	19	\$281	494	4,360
November	841	11,200	4	169	20	295	849	5,210
December	507	11,600	11	507	19	330	520	5,730
January-October	4,190	94,400	185	2,410	166	1,890	4,360	XX
January-December	5,540	117,000	200	3,090	205	2,510	5,730	XX
2018:								
January	308	8,990	1	58	19	280	314	314
February	973	11,800	19	353	16	276	991	1,300
March	1,310	17,700	4	190			1,310	2,610
April	530	16,200	5	290	38	555	543	3,160
May	990	22,000	7	412	21	833	1,000	4,160
June	336	12,000	5	180	1	12	340	4,500
July	605	19,100	12	686	12	35	616	5,110
August	626	19,700	2	83	59	851	642	5,760
September	359	14,200	6	346	42	666	374	6,130
October	311	11,400	2	74	39	496	322	6,450
January-October	6,350	153,000	64	2,670	246	4,010	6,450	XX

XX Not applicable. -- Zero.

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

²May include other intermediate products of cobalt metallurgy and unwrought cobalt alloys.

³Cobalt acetates and cobalt chlorides.

⁴Free alongside ship (f.a.s.) value.

⁵Estimated from gross weights.

⁶May include revisions to previously published data.

 $\label{eq:table 5} \text{U.S. EXPORTS OF WROUGHT COBALT, COBALT ORE,} \\ \text{AND CONCENTRATES}^1$

Wrought c	obalt and	Cobalt ore and			
cobalt a	articles	concentrates			
Gross		Gross			
weight	Value ²	weight	Value ² (thousands)		
(metric tons)	(thousands)	(metric tons)			
107	\$8,340				
85	10,200				
94	10,400	3	\$7		
1,010	81,600	250	1,030		
1,190	102,000	253	1,040		
98	9,690				
99	10,100	(3)	4		
88	10,700				
70	6,970	(3)	3		
69	8,500				
109	11,800	2	83		
92	9,850	35	302		
85	9,340				
91	10,600	18	160		
92	11,900				
893	99,500	55	551		
	cobalt a Gross weight (metric tons) 107 85 94 1,010 1,190 98 99 88 70 69 109 92 85 91 92	weight (metric tons) Value² (thousands) 107 \$8,340 85 10,200 94 10,400 1,010 \$1,600 1,190 102,000 98 9,690 99 10,100 88 10,700 70 6,970 69 8,500 109 11,800 92 9,850 85 9,340 91 10,600 92 11,900	Cobalt articles Concer Gross Gross weight Value² weight (metric tons) (thousands) (metric tons) 107 \$8,340 85 10,200 94 10,400 3 1,010 81,600 250 1,190 102,000 253 98 9,690 99 10,100 (3) 88 10,700 70 6,970 (3) 69 8,500 109 11,800 2 92 9,850 35 85 9,340 91 10,600 18 92 11,900		

⁻⁻ Zero

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

²Free alongside ship (f.a.s.) value.

³Less than ½ unit.