

# Mineral Industry Surveys

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## COBALT IN AUGUST 2019

The amount of cobalt contained in U.S. imports of cobalt metals and chemicals in August 2019 was essentially unchanged from that imported in August 2018. For the first eight months of 2019, the amount of cobalt contained in imports was 5% more than that imported during the same period in 2018 (table 2). The amount of cobalt contained in U.S. exports of unwrought cobalt and chemicals in August 2019 was 38% less than that exported in August 2018 and during the first eight months of 2019, the amount exported was 48% less than that exported during the same period in 2018 (table 4).

in August 2018. The following listed prices are for cobalt metal in August, in dollars per pound.

Type	Price range	Average price
U.S. spot <sup>1</sup>	14.00–17.50	15.25
LME cash mean <sup>2</sup>	11.57–14.06	13.38

<sup>1</sup>Source: Platts Metals Week, minimum 99.8% cobalt cathode.

<sup>2</sup>London 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).

**Prices**

In August, the monthly average U.S. spot cobalt price increased by 3% from that in July and was 54% lower than that in August 2018. The monthly average LME cash mean price increased by 8% from that in July and was 53% lower than that

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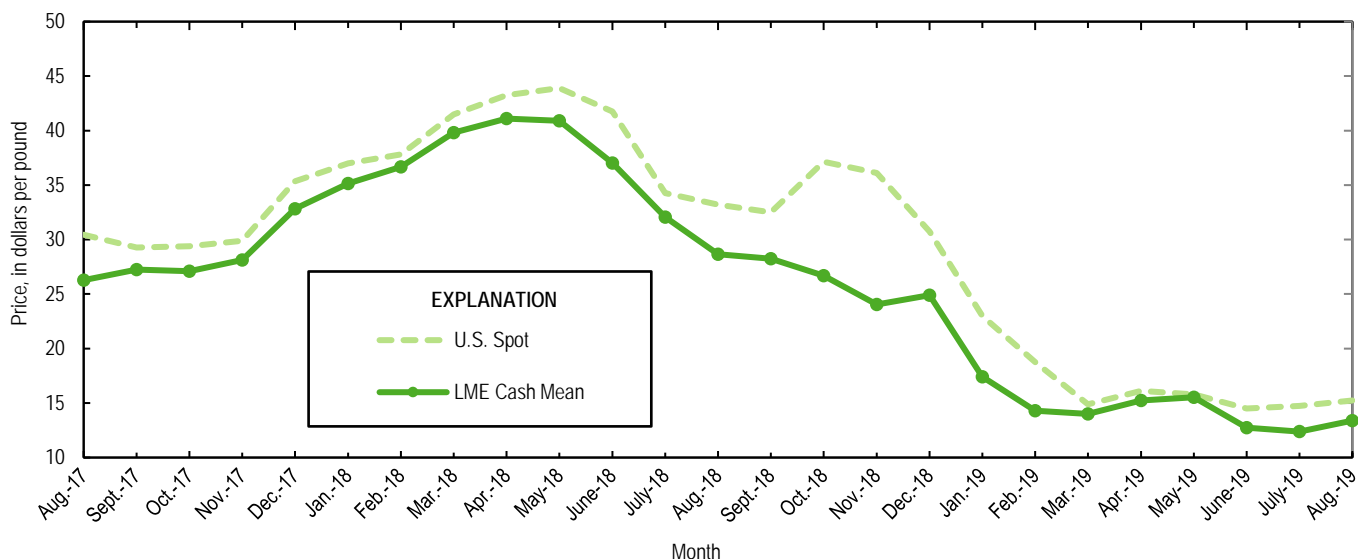


Figure 1. Average U.S. spot prices and LME cash mean prices for August 2017 through August 2019. Sources: Platts Metals Week and London Metal Exchange.\*

\*Corrections posted on June 16, 2020.

TABLE 1  
REPORTED STOCKS OF COBALT METAL, END OF PERIOD

(Metric tons, contained cobalt)

Period	U.S. Government <sup>2</sup>	LME <sup>1</sup>		Total
		U.S. warehouse	Non-U.S. warehouse	
<b>2018:</b>				
August	302	131	559	690
September	302	131	592	723
October	302	130	611	741
November	302	130	585	715
December	302	130	733	863
<b>2019:</b>				
January	302	184	781	965
February	302	204	779	983
March	302	204	761	965
April	302	204	700	904
May	302	200	661	861
June	302	200	659	859
July	302	191	649	840
August	302	191	645	836

<sup>1</sup>London Metal Exchange.

<sup>2</sup>Data from Defense Logistics Agency Strategic Materials.

TABLE 2  
U.S. IMPORTS FOR CONSUMPTION OF COBALT, BY COUNTRY OR LOCALITY<sup>1</sup>

Period and country or locality of origin	Metals <sup>2</sup>		Oxides and hydroxides		Salts and compounds <sup>3</sup>		Total cobalt content for the period <sup>5</sup> (metric tons)	Cobalt content, year to date <sup>5,6</sup> (metric tons)
	Gross weight (metric tons)	Value <sup>4</sup> (thousands)	Gross weight (metric tons)	Value <sup>4</sup> (thousands)	Gross weight (metric tons)	Value <sup>4</sup> (thousands)		
<b>2018:</b>								
August	674	\$48,400	56	\$2,880	35	\$484	724	8,420
September	604	38,500	122	6,680	551	3,850	851	9,270
October	968	63,900	112	5,170	353	4,000	1,150	10,400
November	462	29,100	102	5,930	385	3,030	640	11,100
December	622	39,300	103	4,250	86	1,780	727	11,800
January–August	6,520 <sup>r</sup>	450,000	1,250	69,900	3,280 <sup>r</sup>	29,400 <sup>r</sup>	8,420 <sup>r</sup>	XX
January–December	9,170	621,000	1,690	92,000	4,660	42,000	11,800	XX
<b>2019:</b>								
January	852	48,000	116	3,880	119	2,040	978	978
February	824	41,400	116	2,630	268	4,670	998	1,980
March	1,240	50,300	102	2,900	159	2,430	1,370	3,340
April	1,260	48,400	161	3,960	239	3,630	1,470	4,810
May	1,220	43,000	190	4,740	286	2,880	1,440	6,250
June	558	17,800	123	3,000	141	1,190	687	6,940
July	1,030	34,000	181	4,350	115	1,580	1,200	8,130
<b>August:</b>								
Australia	25	743	--	--	--	--	25	621
Belgium	(7)	4	34	767	--	--	24	268
Brazil	--	--	--	--	--	--	--	37
Canada	274	7,990	--	--	--	--	274	1,690
China	8	233	23	459	4	89	27	372
Finland	34	1,020	8	188	77	938	66	754
France	3	124	--	--	--	--	3	8
Germany	2	80	--	--	1	27	2	31
India	--	--	--	--	--	--	--	12
Japan	25	1,040	--	--	--	--	25	752
Korea, Republic of	--	--	(7)	4	--	--	(7)	84
Madagascar	126	3,790	--	--	--	--	126	772
Morocco	40	1,130	--	--	--	--	40	130
Norway	--	--	--	--	--	--	--	1,910
Russia	41	1,350	--	--	--	--	41	875
South Africa	22	164	--	--	--	--	22	226
Taiwan	--	--	17	428	--	--	12	25
United Kingdom	1	77	38	823	4	41	29	283
Other	(7)	2	--	--	1	11	(7)	3
Total	602	17,700	119	2,670	88	1,120	718	8,850
January–August	7,580	301,000	1,110	28,100	1,410	19,500	8,850	XX

<sup>r</sup>Revised. XX Not applicable. -- Zero.

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

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

<sup>3</sup>Includes cobalt acetates, cobalt carbonates, cobalt chlorides, and cobalt sulfates.

<sup>4</sup>Customs value.

<sup>5</sup>Estimated from gross weights.

<sup>6</sup>May include revisions to previously published data.

<sup>7</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS, BY COUNTRY OR LOCALITY<sup>1</sup>

Period and country or locality of origin	Unwrought cobalt alloys		Cobalt waste and scrap		Wrought cobalt and cobalt articles	
	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Gross weight (metric tons)	Value <sup>2</sup> (thousands)
2018:						
August	25	\$1,720	179	\$2,880	23	\$2,830
September	24	1,580	186	2,890	32	3,620
October	41	2,380	264	4,170	35	3,880
November	53	3,550	165	3,360	39	4,990
December	85	4,330	212	3,360	23	4,020
January–August	362	20,000	1,600	27,300	212 <sup>r</sup>	28,100 <sup>r</sup>
January–December	565	31,900	2,430	41,100	341	44,600
2019:						
January	29	1,920	173	1,990	42	5,410
February	59	3,490	179	2,520	24	3,350
March	85	4,040	144	2,410	43	4,890
April	38	2,870	253	3,430	34	4,490
May	18	1,140	156	3,360	41	4,510
June	21	1,550	145	1,460	47	4,480
July	34	2,430	223	2,420	55	4,630
August:						
Belgium	6	206	10	547	1	42
Canada	(3)	6	1	19	2	715
France	--	--	15	150	2	528
Germany	--	--	(3)	3	2	277
India	--	--	5	77	(3)	36
Ireland	--	--	38	287	--	--
Japan	(3)	11	30	203	1	10
Tunisia	--	--	16	162	(3)	2
United Kingdom	31	2,200	54	984	11	1,020
Other	1	42	2	11	4	560
Total	39	2,470	171	2,440	23	3,190
January–August	322	19,900	1,440	20,000	309	34,900

<sup>r</sup>Revised. -- Zero.

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

<sup>2</sup>Customs value.

<sup>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 4  
U.S. EXPORTS OF COBALT MATERIALS<sup>1</sup>

Period	Unwrought cobalt, powders, matte, waste and scrap <sup>2</sup>		Oxides and hydroxides		Salts and compounds <sup>3</sup>		Total cobalt content for the period <sup>5</sup> (metric tons)	Cobalt content, year to date <sup>5,6</sup> (metric tons)
	Gross weight (metric tons)	Value <sup>4</sup> (thousands)	Gross weight (metric tons)	Value <sup>4</sup> (thousands)	Gross weight (metric tons)	Value <sup>4</sup> (thousands)		
<b>2018:</b>								
August	626	\$19,700	2	\$83	59	\$851	642	5,530
September	360	14,200	6	346	42	666	374	5,900
October	312	11,400	2	74	39	496	322	6,220
November	284	11,700	3	64	11	61	289	6,510
December	447	13,000	2	73	22	422	453	6,960
January–August	5,450 <sup>r</sup>	122,000 <sup>r</sup>	56	2,250	165	2,840	5,530 <sup>r</sup>	XX
January–December	6,850	172,000	69	2,810	279	4,490	6,960	XX
<b>2019:</b>								
January	266	9,190	3	126	22	416	273	273
February	518	15,900	4	84	20	258	525	798
March	413	14,300	1	49	6	69	415	1,210
April	424	10,800	4	207	16	157	431	1,650
May	285	9,430	3	74	46	287	299	1,940
June	252	9,180	7	90	10	208	259	2,200
July	214	8,870	44	658	19	170	250	2,450
August	398	10,700	4	115	--	--	401	2,850
January–August	2,770	88,400	72	1,400	139	1,560	2,850	XX

<sup>1</sup>Revised. XX Not applicable. -- Zero.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include other intermediate products of cobalt metallurgy and unwrought cobalt alloys.

<sup>4</sup>Cobalt acetates and cobalt chlorides.

<sup>5</sup>Free alongside ship (f.a.s.) value.

<sup>6</sup>Estimated from gross weights.

<sup>7</sup>May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 5  
U.S. EXPORTS OF WROUGHT COBALT, COBALT ORE,  
AND CONCENTRATES<sup>1</sup>

Period	Wrought cobalt and cobalt articles		Cobalt ore and concentrates	
	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Gross weight (metric tons)	Value <sup>2</sup> (thousands)
2018:				
August	85	\$9,370	--	--
September	91	10,600	18	\$160
October	92	11,900	--	--
November	147	14,000	(3)	11
December	124	13,400	--	--
January–August	710	77,000	37	391
January–December	1,160	127,000	55	562
2019:				
January	111	12,200	16	103
February	102	11,300	--	--
March	105	13,300	8	264
April	151	13,300	--	--
May	117	12,600	(3)	6
June	109	11,400	(3)	5
July	102	11,300	--	--
August	127	13,700	--	--
January–August	925	99,200	24	378

-- Zero.

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

<sup>2</sup>Free alongside ship (f.a.s.) value.

<sup>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.