

Mineral Industry Surveys

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PLATINUM-GROUP METALS IN OCTOBER 2018

Imports for consumption of platinum-group metals (PGMs), including waste and scrap, were 20,700 kilograms (kg) in October 2018, representing increases of 16% and 7% compared with imports in September 2018 and October 2017, respectively. The leading import sources for PGMs into the United States were, in decending order, South Africa, Germany, and Russia (tables 3, 4). For January through October 2018, imports of palladium, platinum, and PGM scrap were 75,700 kg, 49,500 kg, and 34,200 kg, increases of 20%, 13%, and a decrease of 90%, respectively, compared with imports in the similar period in 2017.

Prices

Compared with the prior month, the Engelhard average October prices increased by 7% and 3% for palladium and platinum, respectively, and increased slightly for iridium, rhodium, and ruthenium. Compared with October 2017, the October 2018 average prices increased by 226%, 79%, 50%, and 13% for ruthenium, rhodium, iridium, and palladium, respectively. The price of platinum decreased by 10% (figs. 1, 2; tables 1, 2). On October 23, palladium reached its highest price in decades reportedly owing to concerns over a limited supply of the metal as well as an increased demand for it in gasoline-powered vehicle catalytic converters (Perez and Rowling, 2018).

Government and Legislation

On October 31, the U.S. Securities and Exchange Commission (SEC) announced that it will adopt amendments to the Securities Act of 1933 and the Securities Exchange Act of 1934. These amendments will require companies with mining properties that file SEC reports to disclose more comprehensive information on their mining properties to investors (U.S. Securities and Exchange Commission, 2018).

References Cited

Perez, Marvin, and Rowling, Rupert, 2018, Palladium reaches record on mounting concerns over tight supply: Bloomberg [New York, NY], October 22. (Accessed December 14, 2018, at https://www.bloomberg.com/news/articles/2018-10-22/palladium-nearsrecord-after-hedge-funds-piled-in-amid-shortages.)

U.S. Securities and Exchange Commission, 2018, SEC adopts rules to modernize property disclosures required for mining registrants: Washington, DC, U.S. Securities and Exchange Commission press release, October 31. (Accessed December 14, 2018, at https://www.sec.gov/news/press-release/2018-248.)

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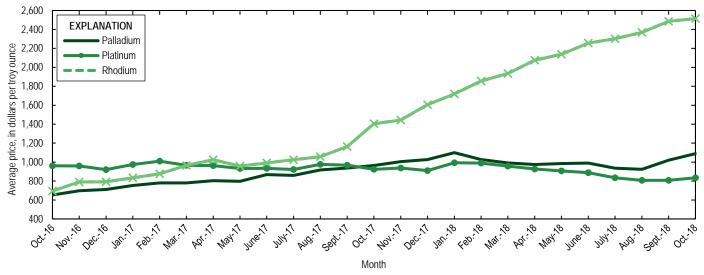


Figure 1. Engelhard unfabricated average monthly prices for palladium, platinum, and rhodium from October 2016 through October 2018. Source: Platts Metals Week.

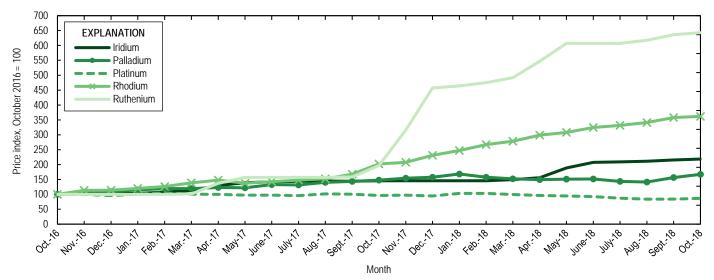


Figure 2. Indexed Engelhard unfabricated average monthly prices for iridium, palladium, platinum, rhodium, and ruthenium from October 2016 through October 2018. Prices are indexed to October 2016. Source: Platts Metals Week.

 $\label{eq:table 1} \textbf{TABLE 1} \\ \textbf{U.S. SALIENT PLATINUM-GROUP METALS STATISTICS}^1$

	2017	2018						
	January-				January-			
	December	August	September	October	October			
Mine production: ²								
Platinum	3,980	330	330	330	3,040			
Palladium	13,600	1,110	1,110	1,110	10,400			
Total	17,600	1,440	1,440	1,440	13,500			
Imports for consumption: ³	_							
Platinum	416,000 4	8,280	7,200	8,600	83,700			
Palladium	86,000	6,570	7,640	8,950	75,700			
Iridium	1,420	86	129	96	851			
Osmium	856				25			
Ruthenium	14,500	679	1,570	1,910	14,800			
Rhodium	11,600	848	1,320	1,100	12,000			
Total	530,000	16,500	17,900	20,700	187,000			
Exports: ³	_							
Platinum	211,000	8,740	3,460	6,100	44,400			
Palladium	52,300	5,560	3,640	1,880	46,500			
Iridium, osmium, ruthenium	939	307	403	209	2,280			
Rhodium	844	418	118	571	3,390			
Total	266,000	15,000	7,620	8,770	96,500			
Price, average (dollars per troy ounce): ⁵	=							
Palladium	874.30	924.17	1,019.68	1,089.52	1,003.59			
Platinum	951.23	807.91	807.84	833.57	894.88			
Iridium	908.35	1,435.65	1,463.42	1,485.00	1,254.93			
Rhodium	1,112.59	2,369.78	2,486.32	2,514.35	2,165.26			
Ruthenium	76.86	259.35	267.11	270.00	239.21			

⁻⁻ Zero.

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

²Data estimated based on publicly reported quarterly data.

³Source: U.S. Census Bureau.

⁴All or part of these data have been referred to the U.S. Census Bureau for verification.

⁵Source: Platts Metals Week.

TABLE 2 PLATINUM-GROUP METALS PRICES¹

(Dollars per troy ounce)

	Palladium	Platinum	Iridium	Rhodium	Ruthenium
2017:					
Low:	_				
Price	710.00	880.00	700.00	765.00	42.00
Date	Jan. 3	Dec. 13	Jan. ²	Jan. 3	Jan.–Mar. ²
High:					
Price	1,062.00	1,035.00	990.00	1,725.00	195.00
Date	Dec. 28	Feb. 27	Aug. ² and Oct.–Dec. ²	Dec. ²	Dec. ²
Average	874.30	951.23	908.35	1,112.59	76.86
018:					
September:	_				
Low:					
Price	972.00	775.00	1,450.00	2,400.00	265.00
Date	Sep. 4	Sep. 4	(2)	(2)	(2)
High:					
Price	1,099.00	833.00	1,485.00	2,590.00	270.00
Date	Sep. 28	Sep. 24	(2)	(2)	(2)
Average	1,019.68	807.84	1,463.42	2,486.32	267.11
October:					
Low:	_				
Price	1,055.00	817.00	1,485.00	2,425.00	270.00
Date	Oct. 3	Oct. 8	(2)	(2)	(2)
High:					
Price	1,147.00	848.00	1,485.00	2,590.00	270.00
Date	Oct. 23	Oct. 15	(2)	(2)	(2)
Average	1,089.52	833.57	1,485.00	2,514.35	270.00
January-October:					
Low:	_				
Price	854.00	775.00	990.00	1,700.00	195.00
Date	Aug. 15	Sep. 4	Jan.–Feb. ²	Jan. ²	Jan. ² , Feb. 1 and 2
High:					
Price	1,147.00	1,023.00	1,485.00	2,590.00	270.00
Date	Oct. 23	Jan. 25	SepOct. ²	SepOct. ²	SepOct. ²
Average	994.04	901.69	1,229.37	2,126.47	235.79

Source: Platts Metals Week.

¹Quotes from Engelhard. ²Occurred multiple days in month(s) listed.

 $\label{eq:table 3} \textbf{U.S. IMPORTS FOR CONSUMPTION OF PLATINUM METAL, BY COUNTRY OR LOCALITY}^{\textbf{I}}$

		inum		Other						num		
	grain and nuggets		Platinum sponge		unwroug	unwrought platinum		Platinum, other		nd scrap	Platinu	ım coins
		Value		Value		Value		Value		Value		Value
Country or locality	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)
2017:												
January-December	1,580	\$49,000	39,300	\$1,200,000	3,530	\$113,000	8,040	\$255,000	363,000 ²	\$1,050,000 2	837	\$27,600
2018:												
August	762	19,400	2,980	81,000	182	5,670	823	24,500	3,440	100,000	97	2,680
September	27	808	3,620	94,800	235	6,560	1,330	38,100	1,830	53,300	150	4,360
October: ³	· -											
Australia							(4)	13	98	1,820	48	1,380
Belgium			51	1,420					8	267		
Brazil									144	6,440		
Canada	8	229					33	916	773	6,290	54	1,520
China									19	1,570		
Colombia					28	850			6	107		
France							7	209	574	1,180		
Germany	21	583	702	20,000	93	3,150	313	9,800	426	12,500	47	1,690
Italy			363	9,800					118	3,900		
Japan					105	2,820	6	106	203	6,270		
Malaysia									26	558		
Mexico									225	7,540		
New Zealand									33	1,070		
Nigeria									25	704		
Norway			132	3,510								
Russia			100	2,630								
Singapore					158	7,110	16	433	123	3,890		
South Africa			1,830	47,800			14	379				
Switzerland			45	1,210			733	20,400				
United Kingdom			40	1,020	1	55	20	562	745	17,000		
Other					10	343	1	23	78	1,920		
Total	29	811	3,270	87,400	396	14,300	1,140	32,800	3,620	73,000	149	4,580
January-October	979	26,100	36,800	1,080,000	2,720	88,700	8,110	256,000	34,200	870,000	891	27,400

⁻⁻ Zero.

Source: U.S. Census Bureau.

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

²All or part of these data have been referred to the U.S. Census Bureau for verification.

³The 20 countries and (or) localities with the greatest total platinum imports are listed. All others are included in the "Other" category.

⁴Less than ½ unit.

TABLE 4 U.S. IMPORTS FOR CONSUMPTION OF PLATINUM-GROUP METALS, BY COUNTRY OR LOCALITY $^{\rm I}$

	Unwrought palladium		Palladium, other		Iridium ²		Osmium ²		Ruthenium ²		Rhodium ²	
		Value		Value		Value		Value		Value		Value
Country or locality	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)
2017:												
January-December	75,000	\$2,080,000	11,000	\$320,000	1,420	\$38,100	856	\$1,740	14,500	\$34,200	11,600	\$386,000
2018:												
August	5,450	165,000	1,130	34,200	86	3,100			679	5,410	848	62,100
September	6,730	208,000	915	31,400	129	5,680			1,570	12,900	1,320	99,800
October:												
Belgium											3	260
Canada			487	18,600							2	66
Germany	1,840	66,100			22	1,070			72	638	253	20,900
Italy	391	14,100	(3)	9							35	2,890
Japan	203	1,890										
Norway	186	6,340									14	1,220
Russia	3,290	111,000	103	3,610							82	6,260
South Africa	2,330	78,400			68	3,130			569	4,680	504	39,400
Switzerland			9	319								
Taiwan	72	1,680										
United Kingdom	38	1,310	5	204	6	258			1,270	10,900	209	17,000
Total	8,350	281,000	603	22,800	96	4,450			1,910	16,200	1,100	88,000
January-October	66,300	2,160,000	9,470	332,000	851	30,800	25	136	14,800	106,000	12,000	785,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

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

²Unwrought and other forms.

³Less than ½ unit.

 ${\bf TABLE~5} \\ {\bf U.S.~EXPORTS~OF~PLATINUM-GROUP~METALS,~BY~COUNTRY~OR~LOCALITY}^{1}$

	Platinum ²		Platinum waste and scrap		Pall	adium ²		n, osmium henium ^{2, 3}	Rhodium ²		
	114011	Value	- Maste a	Value	1 411	Value	and rut	Value	Kil	Value	
Country or locality	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	Quantity	(thousands)	
2017:		((* * * * * * * * * * * * * * * * * * *		(* * * * * * * * * * * * * * * * * * *	<u> </u>	(* * * * * * * * * * * * * * * * * * *		(* * * * * * * * * * * * * * * * * * *	
January-December	16,700	\$494,000	195,000 4	\$679,000 4	52,300	\$888,000	939	\$11,700	844	\$30,700	
2018:											
August	2,790	68,900	5,950	103,000	5,560	102,000	307	4,640	418	14,900	
September	1,940	60,700	1,520	28,000	3,640	59,700	403	3,760	118	8,950	
October: ⁵											
Australia	3	137			7	130	19	175			
Belgium	32	850	2,270	11,200					19	1,040	
Canada	10	342	27	818	578	19,200			(6)	6	
China	23	729			19	420	1	3	4	303	
Costa Rica	41	506			69	385					
France	14	473			64	507	7	34			
Germany	427	12,500	574	15,800	168	1,560	26	1,260	57	1,690	
Hong Kong	3	86			100	1,450	4	43			
India	8	199			27	926					
Ireland	48	1,360			26	221	1	3			
Israel	(6)	4			304	2,220					
Italy	12	366	146	5,270	10	379	24	550	4	230	
Japan	3	99	293	10,400	244	7,550	122	1,380	61	5,640	
Korea, Republic of	1	25			113	2,520					
Mexico	17	510			32	290			(6)	16	
South Africa			11	340	1	4			423	7,450	
Switzerland	1	31	440	7,540	3	100					
Taiwan	7	187			53	1,000					
Thailand	2	49	2	50	6	161					
United Kingdom	1,220	42,200	463	16,800	40	1,080	5	40	4	281	
Other	16	445			16	359					
Total	1,880	61,200	4,220	68,200	1,880	40,400	209	3,490	571	16,700	
January-October	15,700	477,000	28,700	563,000	46,500	936,000	2,280	39,100	3,390	119,000	

⁻⁻ Zero.

Source: U.S. Census Bureau.

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

²Unwrought and other forms.

³Gross weight.

⁴All or part of these data have been referred to the U.S. Census Bureau for verification.

⁵The 20 countries and (or) localities with the greatest total platinum-group metal exports are listed. All others are included in the "Other" category.

⁶Less than ½ unit.