

Analysis of
specimen of
native
platinum from
granite rocks,
British
Columbia, cont.

and which was found to be magneti-polar, contained but 9.35 per cent. of iron, a difference of only 0.45 per cent.

The weights of the material constituting the sub-portions having been added together, as likewise the amounts of each of the several constituents found in these sub-portions, calculation showed the composition of this ore—after careful separation of the associated grains of foreign matter—taken as a whole, as determined upon the 17.894 grams material, to be as follows:—

Platinum	72.07
Palladium	0.19
Rhodium	2.57
Iridium	1.14
Osmium	—
Copper	3.39
Iron	3.59
Osmiridium	10.51
Gangue (imbedded chromite)	1.69
	100.15

In common with the native platinum of Oregon and Australia, this ore contains a large proportion of osmiridium, but differs from the material of those localities in that it contains a higher percentage of copper and iron, in which regard it more nearly approaches in composition to some Russian specimens of this mineral.

The following analyses of platinum ores, by Deville and Debray, are given for comparison with the foregoing, from which, it must be remembered, the associated gold was separated prior to analysis:—

Analysis of
platinum ore
from Oregon,
Australia,
California,
Choco, and
Nischne
Tagilek.

	1	2	3	4	5
Platinum	51.45	61.40	85.50	86.20	76.40
Palladium	0.15	1.80	0.60	0.50	1.40
Rhodium	0.65	1.85	1.00	1.40	0.30
Iridium	0.40	1.10	1.05	0.85	4.30
Copper	2.15	1.10	1.40	0.60	4.10
Iron	4.30	4.55	6.75	7.80	11.70
Gold	0.85	1.20	0.80	1.00	0.40
Osmiridium	37.30	23.00	1.10	0.95	0.50
Sand	3.00	1.20	2.95	0.95	1.40
	100.25	100.20	101.15	100.25	100.50

1. Oregon, North America. 2. Australia. 3. California, North America. 4. Choco, South America. 5. Nischne Tagilek, Ural, Russia.

Platinum,
economic uses
of.

Platinum is, by reason of its inalterability at high temperatures and power of resisting the action of a great number of the most powerful chemical agents, a valuable and useful metal for the manufacture of a

[HOFFMANN.]

great man
evaporatin
manufactu
form of sti
Osmiridium
the so-call
it should b
selected, t
and of the
the one he
\$2.92 to \$
dium, as o
above spec

A specim
half a poun
F. McCullo
been found
above Lillo

In his re
of Progress
appears cer
in gold-wa
autumn of
of rich cin
the vicinity
and further
mercury sa
near Clint
minster, ser
have been f

The pres
Mr. R. G.
(Kicking H
Mountains,
granular li
of a bright
A portio
showed it t