

Crystal Data: Hexagonal. *Point Group:* 6/m 2/m 2/m. In alteration rims with tetraferroplatinum after isoferroplatinum or as grains to 150 μm .

Physical Properties: *Cleavage:* None. *Tenacity:* Malleable. *Fracture:* n.d. Hardness = 4 VHN = 262-320, 295 average. D(meas.) = n.d. D(calc.) = 14.80

Optical Properties: Opaque. *Color:* White. *Streak:* n.d. *Luster:* Metallic. *Optical Class:* *Anisotropism:* Moderate, light brown to gray. *Pleochroism:* Weak, white to grayish white. No internal reflections. R₁-R₂: (470) 47.11-50.26, (546) 52.73-57.14, (589) 55.56-60.59, (650) 57.73-63.27

Cell Data: *Space Group:* P6₃/mmc. *a* = 4.2492(6) *c* = 5.486(6) *Z* = 2

X-Ray Diffraction Pattern: Ledyanoy Creek placer, Koryak Highlands, Kamchatka, Russia. 2.197 (100), 3.052 (80), 1.528 (35), 2.125 (28), 0.958 (22), 1.747 (18), 1.240 (18)

Chemistry:	(1)	(2)
Pt	47.51	48.49
Pb	45.41	51.51
Sb	6.03	
Rh	1.21	
Total	100.16	100.00

(1) Ledyanoy Creek placer, Koryak Highlands, Kamchatka, Russia; average electron microprobe analysis; corresponds to (Pt_{0.94}Rh_{0.04}) $\Sigma=0.98$ (Pb_{0.83}Sb_{0.19}) $\Sigma=1.02$. (2) PtPb.

Occurrence: In heavy mineral concentrate from a fluvial placer derived from a Ural-Alaskan-type ultramafic complex.

Association: Isoferroplatinum, tetraferroplatinum, tulameenite, Cr-rich spinel, native iridium, hollingworthite.

Distribution: From the Ledyanoy Creek placer, Koryak Highlands, Kamchatka, Russia.

Name: Honors geologist Fahrid Shakirovitch Kutyev (1943-1993), Institute of Volcanology of USSR Academy of Sciences, who played a key role in the discovery of the Koryak-Kamchatka platinum belt, including the Ledyanoy placer platinum deposit.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (5576/1).

References: (1) Sidorov, E.G., A.V. Kutyrev, E.S. Zhitova, A.A. Agakhanov, E.I. Sandimirova, A. Vymazalova, V.M. Chubarov, and A.A. Zolotarev (2021) Kufahrite, PtPb, a new mineral from Ledyanoy Creek placer, Galmoenan ultramafic complex, Koryak Highlands, Russia. *Mineral. Mag.*, 85, 254-261.