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Crystal Data: Hexagonal. *Point Group:* $\overline{3}$ 2/m or $\overline{3}$. As thin tablets, in aggregates, to 2 mm across.

Physical Properties: Cleavage: Perfect, on $\{001\}$. Hardness = \sim 2. VHN = 71–91, 82 average, \perp to cleavage; 90–112, 100 average, \parallel to cleavage (10 g load). D(meas.) = n.d. D(calc.) = 8.096

Optical Properties: Opaque. Color: Silvery gray; in reflected light, white with yellowish tint. Streak: Gray. Luster: Metallic.

Optical Class: Uniaxial. Pleochroism: Weak in pale bluish brown tints. Anisotropism: Distinct. Bireflectance: Negligible.

R: (400) 51.3, (420) 50.7, (440) 49.6, (460) 48.7, (480) 48.6, (500) 48.5, (520) 47.8, (540) 47.5, (560) 48.2, (580) 47.0, (600) 46.5, (620) 46.5, (640) 46.1, (660) 46.5, (680) 46.2, (700) 46.7

Cell Data: Space Group: $P\overline{3}1m$ or $P\overline{3}$. a = 4.191(2) c = 39.60(3) Z = 3

X-ray Powder Pattern: Nevskoye deposit, Russia. 3.04 (10), 2.096 (8), 1.298 (7), 1.806 (6), 1.233 (6), 3.42 (5), 1.725 (5)

Chemistry:

	(1)
Ag	0.13
Pb	42.58
Sb	0.08
Bi	42.02
Se	10.60
S	5.80
Total	101.21

(1) Nevskoye deposit, Russia; by electron microprobe, average of 23 analyses; corresponds to $(Pb_{1.99}Ag_{0.01})_{\Sigma=2.00}(Bi_{1.95}Sb_{0.01})_{\Sigma=1.96}(S_{1.75}Se_{1.30})_{\Sigma=3.05}$.

Occurrence: In a hydrothermal deposit in sediments, near their contact with a granite intrusion.

Association: Arsenopyrite, stannite, tetrahedrite, wittite, laitakarite, selenian cosalite, cassiterite, wolframite.

Distribution: From the Nevskoye W–Sn deposit, 25 km northwest of Omsukchan, Magadan region, Russia.

Name: To honor Petr Vasil'evich Babkin (1929–1977), Russian geologist, Northeast Geological Administration of Mingeo, Magadan, Russia, who first studied the Nevskoye deposit.

Type Material: A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, p806/1.

References: (1) Bryzgalov, I.A., E.M. Spiridonov, I.V. Petrova, and M.S. Sakharova (1996) Babkinite $Pb_2Bi_2(S, Se)_3$ – a new mineral. Doklady Acad. Nauk SSSR, 346, 656–659 (in Russian). (2) (1996) Amer. Mineral., 81, 1513–1518 (abs. ref. 1).