

**Crystal Data:** Orthorhombic. *Point Group:* 2/m 2/m 2/m. As equant inclusions to 50  $\mu\text{m}$ , as aggregates to 200  $\mu\text{m}$ .

**Physical Properties:** *Cleavage:* n.d. *Tenacity:* Brittle. *Fracture:* n.d. *Hardness:* = n.d. *D(meas.)* = n.d. *D(calc.)* = 8.73

**Optical Properties:** Opaque. *Color:* n.d., yellowish white in reflected light. *Streak:* Gray. *Luster:* Metallic.

*Optical Class:* n.d. *Birefractance:* Strong. *Pleochroism:* Strong, slightly yellowish white to bluish gray. *Anisotropism:* Strong, salmon-pink, orange, pale blue and dark blue-black. *R<sub>1</sub>-R<sub>2</sub>:* (400) 30.6-37.0, (420) 31.1-37.5, (440) 31.5-38.0, (460) 32.0-38.5, (470) 32.2-38.8, (480) 32.4-39.0, (500) 32.5-39.2, (520) 32.4-39.2, (540) 31.9-39.3, (546) 31.6-39.4, (560) 31.2-39.5, (580) 30.5-39.7, (589) 30.2-39.8, (600) 29.9-39.9, (620) 29.5-40.3, (640) 29.0-40.8, (650) 28.8-41.1, (660) 28.5-41.3, (680) 28.2-41.8, (700) 27.8-42.3

**Cell Data:** *Space Group:* Cmc<sub>2</sub>m. *a* = 7.9835(1) *b* = 5.9265(1) *c* = 5.7451(1) *Z* = 4

**X-ray Powder Pattern:** Synthetic PdAg<sub>2</sub>S.

2.2352 (100), 2.4263 (71), 2.458 (65), 2.3305 (60), 2.632 (51), 2.1973 (48), 2.0619 (42)

Chemistry:	(1)	(2)
Pd	30.53	30.043
Ag	60.11	60.904
S	8.47	9.053
Se	0.74	.
Total	99.85	100.00

(1) Komsomolsky mine, Talnakh deposit, Noril'sk district, Russia; average of 18 electron microprobe analyses; corresponds to Pd<sub>1.03</sub>Ag<sub>1.99</sub>(S<sub>0.95</sub>Se<sub>0.03</sub>) $\Sigma=0.98$ . (2) PdAg<sub>2</sub>S.

**Occurrence:** In vein-disseminated hydrothermal mineralization in skarn rocks beneath a basaltic sill.

**Association:** Telargpalite, cooperite, braggite, vysotskite, sopcheite, stibiopalladinite, sobolevskite, moncheite, kotulskite, malyshevite, insizwaite, vysotskite, Au-Ag alloy, chalcopyrite, galena (intergrown with); diopside, grossular, chlorite-group minerals, pyrite (included within).

**Distribution:** At the Komsomolsky mine, Talnakh deposit, Noril'sk district, Russia.

**Name:** Honors Viktor Fomich Kravtsov (1932-2014), one of the discoverers of the Talnakh and Oktyabrsk deposits in the Noril'sk district of Russia.

**Type Material:** Department of Earth Sciences, Natural History Museum, London, England (BM 2016, 150).

**References:** (1) Vymazalová, A., F. Laufek, S.F. Sluzhenikin, C.J. Stanley, V.V. Kozlov, D.A. Chareev, and M.L. Lukashova (2017) Kravtsovite, PdAg<sub>2</sub>S, a new mineral from the Noril'sk-Talnakh deposit, Krasnoyarskiy kray, Russia. *Eur. J. Mineral.*, 29(4), 597-602. (2) (2018) *Amer. Mineral.*, 103, 833 (abs. ref. 1).