Crystal Data: Monoclinic. *Point Group*: 2/*m*. As prismatic crystals to 60 μm.

Physical Properties: *Cleavage*: None. *Tenacity*: Brittle. *Fracture*: Uneven. Hardness = n.d. D(meas.) = n.d. D(calc.) = 4.887 Soluble in hot H_2O.

Optical Properties: Transparent. *Color*: Dark red, gray with a yellowish tint in reflected light with abundant, brown-red internal reflections. *Streak*: Reddish black. *Luster*: Close to adamantine. *Optical Class*: *n* = High Weak bireflectance. Non-pleochroic.
R_1-R_2: (470) 13.79-14.30, (546) 12.88-13.23, (589) 12.35-12.70, (650) 11.70-12.03

Cell Data: *Space Group: C*2/*m*. a = 18.090(2) b = 6.2284(6) c = 8.2465(9) β = 90.597(2)° Z = 4

X-Ray Diffraction Pattern: Yadovitaya fumarole, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia.
2.449 (100), 2.934 (74), 2.985 (48), 4.796 (46), 2.825 (36), 2.913 (31), 2.567 (30)

Chemistry:

	(1)
MoO_3	0.83
As_2O_3	18.33
V_2O_3	11.13
Fe_2O_3	0.36
CuO	62.73
ZnO	0.60
PbO	0.75
CaO	0.10
K_2O	0.35
Cs_2O	0.16
Rb_2O	0.18
Cl	5.54
–Cl = O	1.25
Total	99.81

(1) Yadovitaya fumarole, Tolbachik volcano, Kamchatka peninsula, Russia; average electron microprobe analysis; corresponds to $(Cu_{4.94}Zn_{0.05}Ca_{0.01})_{\Sigma=5.00}O_{2.11}[(As_{0.54}V_{0.42}Mo_{0.02}Fe_{0.02})_{\Sigma=1.00}O_{3.93}]_2(Cu_{0.46}K_{0.05}Pb_{0.02}Rb_{0.01}Cs_{0.01})_{\Sigma=0.55}Cl_{1.07}$.

Occurrence: A sublimate at an active volcanic fumarole.

Association: Anhydrite, euchlorine, kamchatkite, langbeinite, lyonsite, pseudolyonsite, tenorite, hematite.

Distribution: From the Yadovitaya ('Poisonous') fumarole, Second scoria cone of the Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia.

Name: For the *Aleut* ethnic group, the original inhabitants of the Commander Islands, Aleutsky District, Kamchatka Krai.

Type Material: Mineralogical Museum, Department of Mineralogy, St Petersburg State University, St Petersburg, Russia (1/19689).

References: (1) Siidra, O.I., E.V. Nazarchuk, A.A. Agakhanov, and Y.S. Polekhovsky (2019) Aleutite $[Cu_5O_2](AsO_4)(VO_4)\cdot(Cu_{0.5}\square_{0.5})Cl$, a new complex salt-inclusion mineral with Cu^{2+} substructure derived from a Kagome-net. Mineral. Mag., 83, 847-853.