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Crystal Data: Tetragonal. Point Group: n.d. As veinlets and elongated aggregates, to 0.3 mm . Twinning: Polysynthetic, complex, observed microscopically.

Physical Properties: $\quad$ Hardness $=$ n.d. $\mathrm{VHN}=1240(40 \mathrm{~g}$ load $) . \quad \mathrm{D}($ meas. $)=$ n.d.
$\mathrm{D}($ calc. $)=6.87(5)$
Optical Properties: Transparent. Color: Colorless; light gray in reflected light.
Streak: White. Luster: Adamantine.
Optical Class: Uniaxial. Anisotropism: Strong. Bireflectance: Weak.
$\mathrm{R}_{1}-\mathrm{R}_{2}$ : (476) 18.2-17.1, (553) 17.3-16.5, (589) 17.1-16.5, (656) 15.6-15.3
Cell Data: Space Group: n.d. $\quad a=13.552(8) \quad c=6.445(5) \quad \mathrm{Z}=2$
X-ray Powder Pattern: Manono pegmatite, Congo.
3.054 (10), 1.869 (7), 1.593 (7), 6.11 (5), 3.19 (5), 2.037 (5b), 1.181 (5)

## Chemistry:

(1)

| $\mathrm{Nb}_{2} \mathrm{O}_{5}$ | 3.24 |
| :--- | ---: |
| $\mathrm{Ta}_{2} \mathrm{O}_{5}$ | 63.85 |
| $\mathrm{SnO}_{2}$ | $[1.60]$ |
| $\mathrm{Sb}_{2} \mathrm{O}_{3}$ | 2.88 |
| SnO | 1.49 |
| PbO | 20.24 |
| CaO | 0.83 |
| $\mathrm{Na}_{2} \mathrm{O}$ | 0.71 |
| $\mathrm{Cs}_{2} \mathrm{O}$ | 5.37 |
| Total | $[100.21]$ |

(1) Manono pegmatite, Congo; by electron microprobe, average of three analyses; corresponding to $\left(\mathrm{Cs}_{0.94} \mathrm{Na}_{0.57} \mathrm{Ca}_{0.37}\right)_{\Sigma=1.88}\left(\mathrm{~Pb}_{2.24} \mathrm{Sb}_{0.49}^{3+} \mathrm{Sn}_{0.27}^{2+}\right)_{\Sigma=3.00}\left(\mathrm{Ta}_{7.15} \mathrm{Nb}_{0.60} \mathrm{Sn}_{0.26}^{4+}\right)_{\Sigma=8.01} \mathrm{O}_{24}$.

Occurrence: In veinlets in a museum specimen from a granite pegmatite.
Association: Lithiotantite, cassiterite, calciotantite, microlite, thoreaulite.
Distribution: From the Manono pegmatite, Katanga Province, Congo (Shaba Province, Zaire).

Name: For CESium, lead (PLUMbum), and TANTalum in the composition.
Type Material: Mining Museum, State University, St. Petersburg, Russia, 1547/2.
References: (1) Voloshin, A.V., Y.A. Pakhomovskii, A.Y. Bakhchisaraytsev, and N.N. Devnina (1986) Cesplumtantite - a new cesium-lead tantalate from granitic pegmatites. Mineral. Zhurnal, 8(5), 92-98 (in Russian with English abs.). (2) (1989) Amer. Mineral., 74, 501 (abs. ref. 1).

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