

**Crystal Data:** Orthorhombic. *Point Group:* n.d. Long, irregular lath-shaped grains to 0.5 mm.

**Physical Properties:** *Fracture:* Uneven. Hardness = ~3 VHN = 154–170, 166 average (15.2 g load). D(meas.) = n.d. D(calc.) = 5.15

**Optical Properties:** Opaque. *Color:* Steel-gray; in reflected light, white with a faint yellowish tint to light gray. *Streak:* Black. *Luster:* Metallic. *Anisotropism:* Strong, from light to dark gray with a faint greenish tint.

R<sub>1</sub>–R<sub>2</sub>: (400) —, (420) 38.6–44.3, (440) 38.5–44.0, (460) 38.4–44.0, (480) 38.0–43.7, (500) 37.9–43.8, (520) 37.9–43.9, (540) 37.6–43.6, (560) 37.4–43.1, (580) 36.9–42.6, (600) 36.5–41.9, (620) 36.2–41.5, (640) 35.6–40.9, (660) 35.4–40.2, (680) 34.9–39.2, (700) 34.2–38.1

**Cell Data:** *Space Group:* n.d.  $a = 18.698(8)$   $b = 6.492(3)$   $c = 4.577(1)$   $Z = 1$

**X-ray Powder Pattern:** Příbram, Czech Republic.

1.797 (10), 2.222 (9), 1.325 (8), 2.392 (6), 3.070 (5), 1.956 (5), 3.670 (4)

**Chemistry:**

	(1)	(2)	(3)
Ag	5.75	5.88	6.18
Pb	46.30	47.26	47.52
Zn	0.35	0.22	
Cu	0.27	0.22	
Fe	0.02	0.05	
Sb	27.39	28.53	27.92
S	18.30	18.75	18.38
Total	98.38	100.91	100.00

(1–2) Příbram, Czech Republic; by electron microprobe, each an average of 15 analyses on 2 different specimens, corresponding to (Ag<sub>0.93</sub>Cu<sub>0.07</sub>)<sub>Σ=1.00</sub>(Pb<sub>3.92</sub>Zn<sub>0.10</sub>Fe<sub>0.01</sub>)<sub>Σ=4.03</sub>Sb<sub>3.94</sub>S<sub>10.00</sub>. (3) AgPb<sub>4</sub>Sb<sub>4</sub>S<sub>10</sub>.

**Occurrence:** In hydrothermal veins.

**Association:** Boulangerite, galena, diaphorite, argentian tetrahedrite, sphalerite.

**Distribution:** From Příbram, Czech Republic.

**Name:** To honor Academician Vladimír Zoubek, former Director of the Geological Survey and Geological Institute of the Czechoslovak Academy of Science, Prague, Czech Republic.

**Type Material:** Mining Museum, Příbram, 432, 220; National Museum, Prague, Czech Republic, PIN87272.

**References:** (1) Megarskaya, L., D. Rykl, and Z. Táborský (1986) Zoubekite, AgPb<sub>4</sub>Sb<sub>4</sub>S<sub>10</sub>, a new mineral from Příbram, Czechoslovakia. Neues Jahrb. Mineral., Monatsh., 1–7. (2) (1987) Amer. Mineral., 72, 227 (abs. ref. 1).