

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As irregular grains to 40 μm , clustered in aggregates to 300 μm , enclosing other selenide minerals.

Physical Properties: *Cleavage:* None. *Fracture:* n.d. *Tenacity:* n.d.
Hardness = 2-3 (by analogy with wittichenite and skinnerite). D(meas.) = n.d. D(calc.) = 6.324

Optical Properties: Opaque. *Color:* Steel-gray; gray with a yellowish hue in reflected light.

Streak: n.d. *Luster:* Metallic.

Optical Class: n.d. *Birefractance:* Weak. *Pleochroism:* Weak. *Anisotropy:* Strong, gray to brownish tints.

R₁-R₂: (400) 40.0-36.3, (420) 40.2-36.3, (440) 40.1-36.2, (460) 40.2-36.1, (470) 40.2-36.1, (480) 40.2-36.1, (500) 40.1-36.2, (520) 39.8-36.2, (540) 39.4-36.2, (546) 39.3-36.1, (560) 39.0-36.0, (580) 38.5-35.6, (589) 38.3-35.5, (600) 38.1-35.3, (620) 37.7-35.0, (640) 37.3-34.8, (650) 37.0-34.7, (660) 36.8-34.5, (680) 36.3-34.1, (700) 35.8-33.6

Cell Data: Space Group: *Pnma*. *a* = 7.9594(12) *b* = 10.5830(14) *c* = 6.8240(11) *Z* = 4

X-ray Powder Pattern: Bytíz deposit, Příbram, Czech Republic.

2.68 (100), 3.27 (50), 2.88 (35), 3.74 (30), 1.86 (30), 3.01 (25), 1.79 (25)

Chemistry:	(1)	(2)
Ag	0.25	
Cu	34.64	34.71
Fe	0.07	
Hg	0.04	
Sb	21.39	22.16
As	0.80	
Se	42.19	43.13
S	0.08	
Total	99.46	100.00

(1) Bytíz deposit, Příbram, Czech Republic; average of 68 electron microprobe analyses; corresponds to (Cu_{3.00}Fe_{0.01}Ag_{0.01})_{Σ=3.02}(Sb_{0.97}As_{0.06})_{Σ=1.03}Se_{2.94}. (2) Cu₃SbSe₃.

Occurrence: As segregations in a calcite vein which cuts an older calcite vein containing umangite and uraninite in a vein-type hydrothermal U deposit.

Association: Chaméanite, bukovite, příbramite, eskebornite, crookesite, giraudite, hakite, umangite, tetrahedrite, berzelianite, uraninite, calcite.

Distribution: From the mine dump of shaft #16, Bytíz deposit, near the village of Bytíz, Příbram, Czech Republic.

Name: For the *Bytíz* deposit, the most important deposit (provided 52% of the net U production of the entire district) within the abandoned complex uranium and base-metal mining district of Příbram, Czech Republic.

Type Material: National Museum, Prague (PIP 11/2016) and the Mining Museum Příbram, (2/2016), Czech Republic.

References: (1) Škácha, P., J. Sejkora and J. Plášil (2018) Bytízite, a new Cu-Sb selenide from Příbram, Czech Republic. *Mineral. Mag.*, 82(1), 199-209. (2) (2019) *Amer. Mineral.*, 104(9), 1361 (abs. ref 1).