

Crystal Data: Monoclinic. *Point Group:* 2/m or m. As irregular grains, to 0.1 mm, rarely with rhombic cross sections.

Physical Properties: *Cleavage:* None reported. *Tenacity:* n.d. *Fracture:* n.d. Hardness = n.d. VHN = 125 (20 g load). D(meas.) = n.d. D(calc.) = 7.38

Optical Properties: Opaque (?). *Color:* n.d.; gray with a weak greenish blue tint in reflected light. *Streak:* n.d. *Luster:* Metallic. *Bireflectance:* Weak. *Anisotropism:* Brown and gray. *Optical Class:* n.d.
 R_1-R_2 : (470) 38.0–34.2, (546) 36.6–32.2, (589) 35.7–31.8, (650) 34.0–30.2

Cell Data: *Space Group:* P2/m or Pm. $a = 8.89(1)$ $b = 8.292(8)$ $c = 19.50(1)$ $\beta = 97.02(3)^\circ$
 $Z = 4$

X-ray Powder Pattern: Bethumi, India.
 2.20 (100), 3.78 (70), 4.26 (50), 2.89 (40), 2.85 (40), 2.29 (40), 2.10 (40)

Chemistry:	(1)	(2)
Ag	60.7	59.95
Cu		0.04
Pb		1.84
Sb	7.7	7.28
As		0.05
Bi		0.06
Te	24.4	25.25
S	5.2	6.08
Se	1.9	
Total	99.9	100.53

(1) Vysokovol'tnoye, Uzbekistan, average of 6 electron microprobe analyses, corresponding to $\text{Ag}_{8.99}\text{Sb}_{1.01}\text{Te}_{3.05}(\text{S}_{2.57}\text{Se}_{0.38})_{\sum=2.95}$. (2) Bethumi, India, average of 2 electron microprobe analyses, corresponding to $(\text{Ag}_{8.78}\text{Pb}_{0.14}\text{Cu}_{0.01})_{\sum=8.93}(\text{Sb}_{0.94}\text{As}_{0.01})_{\sum=0.95}\text{Te}_{3.13}\text{S}_{3.00}$.

Occurrence: In hydrothermal polymetallic gold silver or lead zinc deposits.

Association: Galena, sphalerite, pyrrhotite, falkmanite (Bethumi, India); hessite, mercurian gold, trellurian canfieldite or quartz, tetrahedrite, miargyrite (Vysokovol'tnoye, Uzbekistan).

Distribution: Vysokovol'tnoye deposit, western part of the south Tian Shan fold belt, Uzbekistan, and the Bethumi deposit, Rajasthan, India.

Name: An acronym derived from the initials of the Russian name for the Central Scientific Research Institute of Geological Prospecting in Moscow.

Type Material: A.E. Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow.

References: (1) Sandomirskaya, S.M., Ch. Kh. Arifulov, M.M. Botova, N.N. Mozgova, S.N. Nenasheva, A.I. Tsepina, A.V. Sivtsov (1992) Tsnigriite $\text{Ag}_9\text{SbTe}_3(\text{S},\text{Se})_3$: a new mineral. Zapiski Vses. Mineral. Obsch., l21, 95–101 (in Russian). (2) (1994) Amer. Mineral., 79, 389–390 (abs. ref. 1).