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Crystal Data: Hexagonal. Point Group: $\overline{3} 2/m$. Granular, dropletlike and in spherical aggregates, to 13 mm.

Physical Properties: Cleavage: Perfect, on $\{0001\}$. Tenacity: Flexible, but not elastic. Hardness = 1.5-2 VHN = 62 (5 g load). D(meas.) = 8.1(1) D(calc.) = 8.07

Optical Properties: Opaque. *Color:* Steel-gray; in reflected light, bright white. *Streak:* Black. *Luster:* Metallic.

Cell Data: Space Group: $P\overline{3}m1$. a = 4.249(2) c = 62.82(5) Z = 3

X-ray Powder Pattern: Tyrnyauz deposit, Russia. 3.09 (100), 4.50 (46), 2.255 (38), 2.126 (25), 3.58 (22), 3.30 (20), 3.53 (15)

Chemistry:

	(1)	(2)
Pb	2.15	
Te	14.33	15.90
Se	0.00	
\mathbf{Sb}	0.12	
Bi	76.40	78.11
\mathbf{S}	6.64	5.99
Total	99.64	100.00

(1) Tyrnyauz deposit, Russia; by electron microprobe, average of 20 analyses; corresponds to $(Bi_{5.78}Pb_{0.16}Sb_{0.02})_{\Sigma=5.96}Te_{1.77}S_{3.27}$. (2) $Bi_6Te_2S_3$.

Occurrence: In altered magnetite-andradite skarn.

Association: Gold, bismuthinite, ingodite, joséite, andradite, calcite, chlorite, stilpnomelane.

Distribution: From the Tyrnyauz W–Mo deposit, left bank of the Baksan River Valley, northern Caucasus Mountains, Russia [TL].

Name: For the Baksan River Valley, in which the mineral occurs.

Type Material: Mining Institute, St. Petersburg, 2082/1; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, p1112/1.

References: (1) Pekov, I.V., E.N. Zav'yalov, S.V. Fedyushchenko, D.K. Shcherbachev, Y.S. Borodayev, and G.D. Dorokhova (1996) Baksanite, $Bi_6(Te_2S_3)$, a new mineral from Tyrny'auz (northern Caucasus). Doklady Acad. Nauk SSSR, 347, 787–791 (in Russian). (2) (1997) Amer. Mineral., 82, 1038 (abs. ref. 1).