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Crystal Data: Hexagonal. Point Group: 6/m 2/m 2/m. As hexagonal to anhedral inclusions in tin, to 0.4 mm.

Physical Properties: Fracture: Very brittle. Hardness = n.d. VHN = 381-498, 444 average (40-50 g load). D(meas.) = n.d. D(calc.) = 7.6

Optical Properties: Opaque. *Color:* Nearly white with pinkish tint in reflected light. *Anisotropism:* Distinct to moderate; brownish gray to bluish gray. *Bireflectance:* Weak to distinct.

 $\begin{array}{l} R_1-R_2\colon (400) \ --, \ (420) \ --, \ (440) \ 62.9-70.5, \ (460) \ 64.2-72.0, \ (480) \ 65.3-73.8, \ (500) \ 66.4-75.2, \\ (520) \ 67.2-76.3, \ (540) \ 67.9-77.1, \ (560) \ 68.4-77.9, \ (580) \ 68.8-78.3, \ (600) \ 69.0-78.7, \ (620) \ 69.0-78.9, \\ (640) \ 69.0-79.0, \ (660) \ 69.1-79.0, \ (680) \ 69.1-79.0, \ (700) \ 69.1-79.1 \end{array}$

Cell Data: Space Group: $P6_3/mmc$ (probable). a = 4.217(4) c = 5.120(6) Z = 2

X-ray Powder Pattern: Baimka placer, Russia. 2.970 (10), 2.094 (9), 2.112 (8), 1.487 (5), 1.218 (5), 1.212 (5), 1.333 (4)

Chemistry:

	(1)	(2)
Cu	35.33	35.99
Fe	1.18	trace
Sn	58.18	56.12
Sb	4.77	7.89
Total	99.46	[100.00]

(1) Baimka placer, Russia; by electron microprobe, average of nine analyses; corresponding to $(Cu_{1.00}Fe_{0.04})_{\Sigma=1.04}(Sn_{0.89}Sb_{0.07})_{\Sigma=0.96}$. (2) Rio Tamaná, Colombia; by electron microprobe, average of nine analyses, recalculated to 100% from an original total of 92.75%; corresponding to $Cu_{1.05}(Sn_{0.88}Sb_{0.12})_{\Sigma=1.00}$.

Occurrence: Very rare, in a gold-PGE placer probably derived from Alaskan-type complexes, formed under low-sulfur reducing conditions (Baimka placer, Russia); in concentrates from precious metal placers (Rio Tamaná, Colombia); in sediments (Mid-Atlantic Ridge).

Association: Tin, stistaite, herzenbergite, cassiterite, lead (Baimka placer, Russia); tin, stistaite (Rio Tamaná, Colombia).

Distribution: From the Baimka gold-PGE placer deposit, in the Bol'shoy Anyuy River area, western Chukotka, Russian Far East, Russia [TL]. In the Rio Tamaná, the Department of Chocó, Cauca, Colombia. From the Mir zone, Mid-Atlantic Ridge (26°N).

Name: To honor George Soros (1930–), American financier, for his support of science in the former Russian republics.

Type Material: St. Petersburg Mining University, St. Petersburg, Russia, 2083/1.

References: (1) Barkov, A.Y., Laajoki, K.V.O., S.S. Gornostayev, Y.A. Pakhomoovskii, and Y.P. Men'shikov (1998) Sorosite, Cu(Sn, Sb), a new mineral from the Baimka placer deposit, western Chukotka, Russian Far East. Amer. Mineral., 83, 901–906. (2) Rose, D. (1981) New data for stistaite and antimony-bearing ?? ν -Cu₆Sn₅ from Rio Tamaná, Colombia. Neues Jahrb. Mineral., Monatsh., 117–126.