©2001-2005 Mineral Data Publishing, version 1

**Crystal Data:** Monoclinic. *Point Group:* 2. As aggregates of equant, polygonal grains and short, to 0.5 mm, stubby prisms that may be striated parallel to their length; prisms rarely curved, in nests of curved, grooved, pseudohexagonal plates. *Twinning:* Polysynthetically twinned on  $\{010\}$  as parallel lamellae 25  $\mu$ m wide, on  $\{\overline{2}01\}$  as short tapering lamellae and on  $\{\overline{1}10\}$  and  $\{001\}$ .

**Physical Properties:** Cleavage: Parting  $\{010\}$  perfect, several others less perfect, paralleling the twinning composition planes. Tenacity: Brittle. Hardness = n.d. VHN = 118 (100 g load). D(meas.) = 6.52 D(calc.) = 6.44

**Optical Properties:** Opaque. *Color:* Bright white. *Streak:* Black. *Luster:* Metallic. *Pleochroism:* Distinct, from yellowish white with a slightly pinkish tint, to very pale gray in air; in oil, strong, from pale pinkish gray with a very faint blue-green tint. *Anisotropism:* Strong, in vivid pinks, pale orange, yellow, pale greenish blue and pale green.

 $R_1 - R_2$ : n.d.

**Cell Data:** Space Group: C2. a = 7.252(1) b = 4.172(4) c = 4.431(2)  $\beta = 123^{\circ}8.4(1.4)'$  Z = 1

**X-ray Powder Pattern:** Broken Hill, Australia. 3.06 (100), 2.09 (70), 2.21 (60), 3.72 (40), 1.730 (40), 1.521 (40), 1.392 (40)

Chemistry:		(1)
	$\mathbf{Sb}$	82.9
	As	18.6
	Total	101.5

(1) Broken Hill, Australia; by electron microprobe, corresponding to  $Sb_{2.93}Sb_{1.07}$ .

**Occurrence:** Replacing calcite (Broken Hill, Australia).

Association: Antimonian löllingite, stibarsen, calcite (Broken Hill, Australia).

**Distribution:** From the Consols mine, Broken Hill, New South Wales, Australia [TL]. At Atlin, British Columbia, Canada. In Mexico, from the Moctezuma (Bambolla) mine, 12 km south of Moctezuma, Sonora. In the Szklary serpentinite massif, southwest Poland.

Name: From the Greek for *unexpected alloy*.

Type Material: National Museum of Natural History, Washington, D.C., USA, R419.

**References:** (1) Leonard, B.F., C.W. Mead, and J.J. Finney (1971) Paradocrasite, Sb<sub>2</sub>(Sb, As)<sub>2</sub>, a new mineral. Amer. Mineral., 56, 1127–1146. (2) Cureton, F. (1996) Letters. Mineral. Record, 26, 70–71.