

Crystal Data: Triclinic. *Point Group:* $\bar{1}$. As millimeter-sized masses of intergrown crystals.
Twining: Polysynthetic twinning well developed.

Physical Properties: *Cleavage:* n.d. *Fracture:* Conchoidal. *Tenacity:* Brittle. *Hardness* = n.d.
D(meas.) = n.d. D(calc.) = 5.355

Optical Properties: Opaque. *Color:* Gray, white in reflected light. *Streak:* Black.
Luster: Metallic. *Anisotropism:* Distinct, shades of gray.
Optical Class: n.d.
R₁-R₂: (470) 33.8-39.3, (546) 32.1-38.0, (589) 31.2-36.9, (650) 29.7-35.3

Cell Data: *Space Group:* $P\bar{1}$. $a = 8.0929(4)$ $b = 8.7610(5)$ $c = 22.4971(11)$
 $\alpha = 90.868(4)^\circ$ $\beta = 97.247(4)^\circ$ $\gamma = 90.793(4)^\circ$ $Z = 2$

X-ray Powder Pattern: Monte Arsiccio mine, Tuscany, Italy.
2.824 (vs), 2.707 (s), 3.705 (ms), 3.540 (ms), 2.977 (ms), 2.324 (ms), 2.176 (ms)

Chemistry:	(1)	(2)
Ag	1.48	1.37
Tl	9.72	8.96
Pb	23.36	25.74
Sb	35.25	33.46
As	5.78	6.54
S	22.14	22.08
Se	0.04	0.01
Total	97.77	98.16

(1) Monte Arsiccio mine, Tuscany, Italy; electron microprobe analysis; corresponding to Ag_{0.36}Tl_{1.23}Pb_{2.92}(Sb_{7.50}As_{2.00})_{Σ=9.50}S_{17.88}Se_{0.01}. (2) Monte Arsiccio mine, Tuscany, Italy; electron microprobe analysis; corresponding to Ag_{0.33}Tl_{1.13}Pb_{3.20}(Sb_{7.09}As_{2.25})_{Σ=9.34}S_{17.76}.

Occurrence: In a quartz vein cutting dolostone, associated with a barite-pyrite-iron oxide deposit in regionally metamorphosed rocks.

Association: Zinkenite, dolomite.

Distribution: From the Sant'Olga level, Monte Arsiccio mine, near Sant'Anna di Stazzema, Apuan Alps, Tuscany, Italy.

Name: Honors Matteo Boscardin (b. 1939) for his contribution to the knowledge of the regional mineralogy of Italy.

Type Material: Natural History Museum, University of Pisa, Pisa, Italy (# 19349).

References: (1) Orlandi, P., C. Biagioni, E. Bonaccorsi, Y. Moëlo, and W.H. Paar (2012) Lead-antimony sulfosalts from Tuscany (Italy). XII. Boscardinite, TlPb₄(Sb₇As₂)_{Σ9}S₁₈, a new mineral species from the Monte Arsiccio mine: occurrence and crystal structure. *Can. Mineral.*, 50(2), 235–251. (2) (2014) *Amer. Mineral.*, 99, 2152 (abs. ref. 1).