

Crystal Data: Hexagonal. *Point Group:* 6/m 2/m 2/m. As crystals, to 1 cm.

Physical Properties: Hardness = Low. VHN = 142–151, 148 average (100 g load).
D(meas.) = n.d. D(calc.) = 13.52

Optical Properties: Opaque. *Color:* In polished section, gray. *Luster:* Metallic.
Anisotropism: Very weak.

R₁–R₂: (400) 59.7–60.6, (420) 61.4–62.8, (440) 63.3–65.0, (460) 65.0–66.6, (480) 66.8–68.4, (500) 68.7–70.1, (520) 70.5–71.7, (540) 72.1–73.4, (560) 73.6–74.9, (580) 74.9–76.1, (600) 76.1–77.2, (620) 77.2–78.2, (640) 78.1–79.0, (660) 79.1–79.8, (680) 79.8–80.5, (700) 80.5–81.1

Cell Data: *Space Group:* P6₃/mmc. *a* = 2.978 *c* = 4.842 *Z* = 2

X-ray Powder Pattern: Landsberg, Germany.

2.273 (100), 0.8595 (60), 2.420 (50), 1.268 (50), 0.9538 (50), 1.489 (40), 0.9373 (40)

Chemistry:	(1)	(2)
Ag	37.8	39.66
Hg	61.6	60.34
Total	99.4	100.00

(1) Landsberg, Germany; by electron microprobe, corresponding to Ag_{1.07}Hg_{0.93}; microprobe analyses give low totals because of high absorption; results cluster about Ag_{1.12}Hg_{0.98}.

(2) Ag_{1.10}Hg_{0.90}.

Occurrence: In the zone of oxidation, formed by the alteration of moschellandsbergite.

Association: Paraschachnerite, mercurian silver, acanthite, cinnabar, ankerite, “limonite” (Landsberg, Germany); paraschachnerite, mercurian silver, sphalerite, pyrite (Sala, Sweden).

Distribution: From the Vertrauen auf Gott mercury mine, Landsberg, near Obermoschel, Rhineland-Palatinate, Germany [TL]. At Sala, Västmanland, Sweden.

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Type Material: Technical University, Berlin, Germany; National Museum of Natural History, Washington, D.C., USA, 145618, 150256.

References: (1) Seeliger, E. and A. Mücke (1972) Para-schachnerite, Ag_{1.2}Hg_{0.8}, und Schachnerite, Ag_{1.1}Hg_{0.9}, vom Landsberg bei Obermoschel, Pfalz. Neues Jahrb. Mineral., Abh., 117, 1–18 (in German with English abs.). (2) (1973) Amer. Mineral., 58, 347 (abs. ref. 1). (3) Zakrzewski, M.A. and E.A.J. Burke (1987) Schachnerite, paraschachnerite and silver amalgam from the Sala mine, Sweden. Mineral. Mag., 51, 318–321. (4) Cipriani, C., V. Moggi, G.P. Bernardini, M. Corazza, and G. Mazzetti (1993) Reinvestigation of natural and synthetic silver amalgams. Eur. J. Mineral., 5, 903–914. (5) Criddle, A.J. and C.J. Stanley, Eds. (1993) Quantitative data file for ore minerals, 3rd ed. Chapman & Hall, London, 500.