

Crystal Data: Monoclinic. *Point Group:* $2/m$. As prismatic crystals, to less than 5 mm, elongated along [100] and tabular (010). Crystals are commonly resorbed to give incomplete individuals.

Physical Properties: *Cleavage:* Perfect on {010}. *Tenacity:* Flexible but not elastic, extremely malleable. Hardness = Soft. VHN = n.d. D(meas.) = 4.5(1) D(calc.) = 4.60

Optical Properties: Nearly opaque. *Color:* Dark red; gray-white in reflected light, strong fiery red internal reflections, golden yellow internal reflections occur along scratches. *Streak:* Reddish orange. *Luster:* Resinous. *Pleochroism:* Moderate, from white to gray. *Anisotropism:* Moderate, in tints of gray.

R_1 – R_2 : (400) 34.4–42.1, (420) 33.9–41.0, (440) 33.8–39.9, (460) 33.8–38.8, (480) 33.2–37.4, (500) 32.3–36.3, (520) 30.9–35.1, (540) 29.5–34.0, (560) 28.4–33.1, (580) 27.6–32.3, (600) 26.9–31.6, (620) 26.4–31.1, (640) 26.4–30.9, (660) 26.3–30.6, (680) 26.1–30.4, (700) 25.9–30.1

Cell Data: *Space Group:* $P2_1/n$ (synthetic As₂Se₃). $a = 12.0774(4)$ $b = 9.9037(6)$
 $c = 4.2835(6)$ $\beta = 90.458(9)^\circ$ $Z = 4$

X-ray Powder Pattern: Burnside, Pennsylvania, USA.
2.833 (100), 2.773 (80), 4.87 (70), 2.905 (60), 1.777(50), 1.709 (50), 3.72 (40)

Chemistry:	(1)
As	47.0
Se	43.7
S	8.7
Total	99.4

(1) Burnside, Pennsylvania, USA; by electron microprobe, corresponding to As_{2.00}(Se_{1.91}S_{0.93}As_{0.16})_{Σ=3.00}.

Occurrence: As a secondary incrustation, probably by sublimation, on clinker adjacent to a surface vent on a burning pile of waste material from an anthracite coal mine.

Association: Arsenolite, orpiment.

Distribution: From Burnside, Northumberland Co., Pennsylvania, USA [TL].

Name: To honor Dr. Davis M. Lapham (1931–1974), former Chief Mineralogist of the Pennsylvania Geological Survey.

Type Material: The Natural History Museum, London, England, 1984,843 and E.1036; National Museum of Natural History, Washington, D.C., USA, 163039.

References: (1) Dunn, P.J., D.R. Peacor, A.J. Criddle, and R.B. Finkelman (1986) Laphamite, an arsenic selenide analogue of orpiment, from burning anthracite deposits in Pennsylvania. *Mineral. Mag.*, 50, 279–282. (2) (1987) *Amer. Mineral.*, 72, 1024–1025 (abs. ref. 1). (3) Stergiou, A.C. and P.J. Rentzeperis (1986) The crystal structure of arsenic selenide, As₂Se₃. *Zeits. Krist.*, 173, 185–191.