Polloneite

**AgPb₄₆As₂₆Sb₂₃S₁₂₀**

**Crystal Data:** Monoclinic.  
*Point Group:* 2.  
As prisms of complex morphology to 0.5 mm.

**Physical Properties:** *Cleavage:* None.  
*Tenacity:* Brittle.  
*Fracture:* Conchoidal.  
Hardness = 3-3.5  
VHN = 185-211 200 average (50 g load).  
D(meas.) = n.d.  
D(calc.) = 5.77

**Optical Properties:** Opaque.  
*Color:* Grayish black; white in reflected light.  
*Luster:* Metallic.  
*Anisotropism:* Moderate in brown-violet and deep gray tints.

**Chemistry:**  
(1) Pollone mine, Valdicastello Carducci, Apuan Alps, Tuscany, Italy; average of 15 electron microprobe analyses; corresponds to Ag₁₁.₂₀Pb₂₅.₇₆As₂₅.₇₆Sb₂₃.₉₂S₁₂₀.₂₁.  
(2) AgPb₄₆As₂₆Sb₂₃S₁₂₀.

**Polymorphism & Series:** N = 4 member of the sartorite homologous series.

**Occurrence:** In a hydrothermal vein barite-pyrite-(Pb-Zn-Ag) deposit.

**Association:** Barite.

**Distribution:** From the Pizzone level, Pollone mine, Valdicastello Carducci, near Pietrasanta, Apuan Alps, Tuscany, Italy.

**Name:** For the Pollone mine, where the mineral was discovered.

**Type Material:** Natural History Museum, Vienna, Austria (N 9786).

**References:**  
Mineral. Mag., 81(6), 1303-1322.  