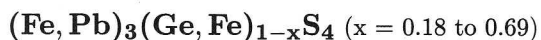


**Polkovicite**

**Crystal Data:** Cubic. *Point Group:* n.d. Massive with other sulfides.

**Physical Properties:** Hardness = n.d. VHN = 119–124 (50 g load).  $D(\text{meas.}) = \text{n.d.}$   
 $D(\text{calc.}) = \text{n.d.}$

**Optical Properties:** Opaque. *Color:* Brownish gray; in reflected light, white with cream-red tint. *Streak:* Dark gray. *Anisotropism:* Distinct.

$R_1$ – $R_2$ : (470) 43.5–44.5, (535) 43.0–44.0, (591) 44.0–45.0, (658) 45.5–46.5

**Cell Data:** *Space Group:* n.d.  $Z = \text{n.d.}$

**X-ray Powder Pattern:** n.d.

|                   |            |
|-------------------|------------|
| <b>Chemistry:</b> | (1)        |
|                   | Fe 29.3    |
|                   | Pb 14.6    |
|                   | Cu 3.6     |
|                   | Ge 4.5     |
|                   | As 1.8     |
|                   | S 34.2     |
|                   | <hr/>      |
|                   | Total 88.0 |

(1) Lower Silesia, Poland; by electron microprobe.

**Polymorphism & Series:** Forms a series with morozeviczite.

**Occurrence:** In epigenetic veinlets and metasomatic replacement zones replacing sandstone and older sulfides, in brecciated sandstones underlying copper-bearing shales.

**Association:** Marcasite, chalcopyrite, bornite, chalcocite, tennantite, sphalerite, galena.

**Distribution:** From the Polkovice mine, Lower Silesia, Poland.

**Name:** For the Polkovice mine, Poland.

**Type Material:** Jagellonian University, Kraków, Poland.

**References:** (1) Haranczyk, C. (1975) Morozeviczite and polkovicite, typochemical minerals of Mesozoic mineralization of the Fore-Sudeten monocline. *Rudy Metalle*, 20, 288–293 (in Polish).  
(2) (1981) *Amer. Mineral.*, 66, 437 (abs. ref. 1).