

**Crystal Data:** Tetragonal. *Point Group:* n.d. Crystals tabular, to 20  $\mu\text{m}$ , may show a tetragonal outline, in spherulitic aggregates.

**Physical Properties:** *Fracture:* Conchoidal. Hardness = 4 D(meas.) = n.d.  
D(calc.) = 7.17

**Optical Properties:** Semitransparent. *Color:* Green, pale yellow, or gray. *Streak:* White.  
*Luster:* Adamantine to dull.  
*Optical Class:* Uniaxial (+).  $\omega = 2.13(2)$   $\epsilon = 2.18(2)$

**Cell Data:** *Space Group:* n.d.  $a = 8.08(2)$   $c = 6.46(2)$   $Z = 4$

**X-ray Powder Pattern:** Black Forest, Germany.  
3.16 (100), 5.73 (70), 1.902 (60), 3.44 (50), 2.02 (50)

<b>Chemistry:</b>		(1)
	Bi <sub>2</sub> O <sub>3</sub>	98.40
	As <sub>2</sub> O <sub>3</sub>	1.78
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	Total	100.18

(1) Black Forest, Germany; by electron microprobe, corresponding to  $(\text{Bi}_{1.92}\text{As}_{0.08})_{\Sigma=2.00}\text{O}_3$ .

**Polymorphism & Series:** Dimorphous with bismite.

**Occurrence:** An oxidation product of wittichenite and emplectite.

**Association:** Bismutite, mixite, malachite, barite, quartz, "limonite".

**Distribution:** From Neubulach, and at Schmiedestollen-Holde, near Wittichen, Black Forest, Germany.

**Name:** In allusion to the spherical aggregates, and *bismuth* in its composition.

**Type Material:** n.d.

**References:** (1) Walenta, K. (1995) Sphaerobismoite, a new mineral of the composition Bi<sub>2</sub>O<sub>3</sub> from the Black Forest. *Aufschluss*, 46, 245–248 (in German). (2) (1996) *Amer. Mineral.*, 81, 1514–1515 (abs. ref. 1).