

**Crystal Data:** Cubic. *Point Group:*  $\bar{4}3m$ . In irregular aggregates, to 0.15 mm.

**Physical Properties:** *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = n.d.  
VHN = 135–153 D(meas.) = n.d. D(calc.) = 8.928

**Optical Properties:** Translucent. *Color:* Brown to black, greenish black; gray in reflected light. *Streak:* Dark gray. *Luster:* Resinous to semimetallic.

*Optical Class:* Isotropic.

R: (407) 11.08, (435) 12.31, (546) 12.73, (591) 12.92, (621) 12.96, (647) 13.27

**Cell Data:** *Space Group:*  $P\bar{4}3m$ (synthetic, ICDD 11-10).  $a = 5.825(1)$   $Z = 4$

**X-ray Powder Pattern:** Ganan area, China.

3.37 (100), 2.057 (90), 1.756 (80), 2.91 (70), 2.272 (50), 1.334 (50), 1.188 (50)

**Chemistry:**

	(1)	(2)
Bi	78.98	78.57
F	20.40	21.43
Total	99.38	100.00

(1) Ganan area, China; by electron microprobe, corresponding to Bi<sub>1.00</sub>F<sub>2.84</sub>. (2) BiF<sub>3</sub>.

**Occurrence:** In wolframite-bearing quartz veins.

**Association:** Bismuth, bismuthinite, pyrite, chalcopyrite.

**Distribution:** In the Ganan area, Laikeng district, southern Jiangxi Province, China.

**Name:** Presumably for its occurrence in the Ganan area, China.

**Type Material:** National Museum of Geology, Beijing, China.

**References:** (1) Longzai Cheng, Zongshao Hu, Shiwei Pan, Rongsheng Huang, and Shuliang Guo (1984) Gananite ( $\alpha$ -BiF<sub>3</sub>), a new bismofluoride mineral from Jiangxi, China. *Yanshi Kuangwu Ji Ceshi*, 3, 119–123 (in Chinese with English abs.). (2) (1988) *Amer. Mineral.*, 73, 1494 (abs. ref. 1).