

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_{1.00}F_{2.84}. (2) BiF₃.

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 (α -BiF₃), 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).