

Crystal Data: Monoclinic. *Point Group:* $2/m$, 2, or m . As prismatic crystals, elongated and striated on {010}, to 8 mm. *Twinning:* On {001}.

Physical Properties: Hardness = n.d. VHN = 103 average (5 to 200 g load).
D(meas.) = 7.08 D(calc.) = 7.07

Optical Properties: Opaque. *Color:* Lead-gray; in reflected light, white with a faint blue tint. *Streak:* Gray. *Luster:* Metallic. *Pleochroism:* Distinct, white to white with blue tint. *Anisotropism:* Distinct, dark gray to gray.

R₁–R₂: (405) 43.2–46.6, (436) 44.5–46.8, (480) 44.3–46.8, (526) 44.2–44.9, (546) 41.8–44.5, (578) 41.4–44.1, (589) 40.9–43.8, (622) 40.5–43.3, (644) 40.0, 43.0, (656) 39.9–43.0, (664) 39.8–43.0, (700) 37.5–41.2

Cell Data: *Space Group:* $C2/m$, $C2$, or Cm . $a = 13.65$ $b = 4.078$ $c = 20.68$
 $\beta = 93.0^\circ$ $Z = 4$

X-ray Powder Pattern: Chaobuleng district, China.

3.386 (100), 2.177 (90), 2.073 (80), 2.051 (70), 1.955 (70), 1.788 (6), 1.396 (5)

Chemistry:

	(1)	(2)	(3)
Pb	52.074	52.06	50.45
Zn	0.653		
Cu	0.16		
Ag	0.75	0.50	
Bi	29.72	29.81	33.93
Sb	0.09		
S	15.09	15.25	15.62
oxides	1.333	1.62	
Total	99.87	99.24	100.00

(1) Chaobuleng district, China; ignoring minor components and oxides, corresponds to Pb_{3.18}Bi_{1.81}S_{6.00}. (2) Do.; by electron microprobe. (3) Pb₃Bi₂S₆.

Occurrence: In a skarn-type iron deposit.

Association: Magnetite, sphalerite, pyrrhotite, pyrite, arsenopyrite, chalcopryrite, digenite, bornite, molybdenite, galena, bismuth, bismuthinite.

Distribution: In the Chaobuleng district, Xilingola League, Inner Mongolia, China.

Name: For the Xilingola locality in China.

Type Material: n.d.

References: (1) Hong Huidi, Wang Xiangwen, Shi Nicheng, and Peng Zhizhong (1982) Xilingolite, a new sulfide of lead and bismuth, Pb_{3+x}Bi_{2-2/3x}S₆. *Acta Petrologica Mineralogica et Analytica*, 1, 14–18 (in Chinese with English abs.). (2) (1984) *Amer. Mineral.*, 69, 409 (abs. ref. 1).