

Crystal Data: Cubic or pseudocubic. *Point Group:* n.d. As a rim around iridosmine.

Physical Properties: Hardness = n.d. VHN = 753 (50 g load). D(meas.) = n.d.
D(calc.) = [7.94]

Optical Properties: Opaque. *Color:* Steel-gray; in reflected light, bluish gray.
Luster: Metallic.

R: (466) 40.5, (544) 38.9, (589) 41.1, (656) 41.0

Cell Data: *Space Group:* n.d. $a = 9.970$ $Z = [8]$

X-ray Powder Pattern: China.

1.765 (10), 5.80 (8), 3.00 (8), 1.208 (8), 2.49 (6), 2.88 (5), 1.335 (4)

Chemistry:

	(1)
Pb	12.80
Cu	3.81
Fe	1.58
Ir	43.49
Pt	9.67
Rh	7.19
S	21.68
Total	100.22

(1) China; by electron microprobe, giving $(\text{Pb}_{0.37}\text{Cu}_{0.35}\text{Fe}_{0.17})_{\Sigma=0.89}(\text{Ir}_{1.33}\text{Rh}_{0.41}\text{Pt}_{0.29})_{\Sigma=2.03}\text{S}_{4.00}$.

Mineral Group: Linnaeite group.

Occurrence: In dunite-hosted platinum ores, related to chromium mineralization (China).

Association: Pt–Fe alloy, osmiridium, iridosmine, osmium, iridium, erlichmanite, cooperite, irarsite, osarsite, chromite, magnetite, pyrite, olivine, serpentine, talc (China).

Distribution: From an unstated locality in China. At Fox Gulch, Goodnews Bay, Alaska, USA. From Tiébaghi, New Caledonia.

Name: Presumably for the undefined Chinese type locality.

Type Material: n.d.

References: (1) Yu Tsu-Hsiang, Lin Shu-Jen, Chao Pao, Fang Ching-Sung, and Huang Chi-Shun (1974) A preliminary study of some new minerals of the platinum group and another associated new one in platinum-bearing intrusions in a region in China. *Acta Geol. Sinica*, 2, 202–218 (in Chinese with English abs.). (2) (1976) *Amer. Mineral.*, 61, 184–185 (abs. ref. 1). (3) Cabri, L.J., Ed. (1981) Platinum group elements: mineralogy, geology, recovery. *Can. Inst. Min. & Met.*, 146–147. (4) Peng Zhizhong, Chang Chiehung, and Ximen Lovlov (1978) Discussion on published articles in the research of new minerals of the platinum-group discovered in China in recent years. *Acta Geol. Sinica*, 4, 326–336 (in Chinese with English abs.). [Peng Zhizhong formerly Pen Chih-Zhong]. (5) (1980) *Amer. Mineral.*, 65, 408 (abs. ref. 4). (6) Institute of Geochemistry, Chinese Academy of Sciences (1981) Platinum deposits in China, geochemistry of the platinum group elements, and platinum group minerals. Science Publishing Agency, Beijing, China, 190 p. (in Chinese). (7) (1984) *Amer. Mineral.*, 69, 412 (abs. ref. 6).

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