

**Crystal Data:** Orthorhombic. *Point Group:*  $2/m\ 2/m\ 2/m$ , or  $mm2$ . Crystals are tabular or elongated || [010], to 20  $\mu\text{m}$ .

**Physical Properties:** *Cleavage:* Parallel to elongation. *Tenacity:* Brittle. Hardness = n.d. VHN = n.d. D(meas.) = n.d. D(calc.) = 11.20

**Optical Properties:** Opaque. *Color:* Dull steel-gray; in polished section, white with a yellow tint in air, milky yellow in oil. *Luster:* Metallic. *Pleochroism:* Weak, yellow to grayish yellow. *Anisotropism:* Distinct.

R<sub>1</sub>–R<sub>2</sub>: n.d.

**Cell Data:** *Space Group:*  $Pn\bar{n}m$  or  $Pnn2$ .  $a = 5.409$   $b = 6.167$   $c = 3.021$   $Z = 2$

**X-ray Powder Pattern:** Danba, China.

2.63 (100), 1.915 (100), 2.67 (80), 4.06 (60), 2.06 (60), 2.01 (60), 1.209 (60)

Chemistry:	(1)
Os	48.9
Ru	4.0
Ir	0.6
Ni	0.3
Fe	0.2
Co	0.1
As	44.2
Total	98.3

(1) Danba, China; by electron microprobe, average of six analyses; corresponding to (Os<sub>0.87</sub>Ru<sub>0.14</sub>Ir<sub>0.01</sub>)<sub>Σ=1.02</sub>As<sub>2.00</sub>.

**Polymorphism & Series:** Forms a series with anduoite.

**Occurrence:** In a Cu–Ni sulfide deposit associated with an ultramafic body.

**Association:** Pyrrhotite, pentlandite, chalcopyrite, violarite, cubanite, bornite, sphalerite, galena, linnaeite, magnetite, testibiopalladite, sudburyite, michenerite, sperrylite, kotulskite, gold, argentinean gold.

**Distribution:** From Danba, Sichuan Province, China [TL].

**Name:** For Omeishan, a well-known mountain in Sichuan Province, China.

**Type Material:** Museum of Geology, National Bureau of Geology [Beijing?], China.

**References:** (1) Ren Yingxin, Hu Qinde, and Xu Jingao (1978) A preliminary study on the new mineral of the platinum group – omeiite, OsAs<sub>2</sub>. *Acta Geol. Sinica*, 52, 163–167 (in Chinese with English abs.). (2) (1979) *Amer. Mineral.*, 64, 464 (abs. ref. 1).