

**Crystal Data:** Cubic. *Point Group:*  $2/m\bar{3}$ . Massive, in aggregates, to 0.2 mm, and in thin veinlets.

**Physical Properties:** *Tenacity:* Brittle. Hardness = 4 VHN = 158–241, 178 average (50 g load). D(meas.) = n.d. D(calc.) = 12.77

**Optical Properties:** Opaque. *Color:* Steel-black; in reflected light, bright white with a yellowish tint. *Streak:* Black. *Luster:* Metallic. *Anisotropism:* Moderate; anomalous bluish to yellowish tints.

R: (400) 47.6, (420) 49.3, (440) 49.5, (460) 49.7, (480) 49.9, (500) 50.2, (520) 50.4, (540) 50.7, (560) 51.0, (580) 51.4, (600) 51.7, (620) 51.9, (640) 52.1, (660) 52.4, (680) 52.3, (700) 52.3

**Cell Data:** *Space Group:*  $Pa\bar{3}$ .  $a = 6.502(4)$   $Z = 4$

**X-ray Powder Pattern:** Near Maying, China.

1.955 (100), 1.735 (80), 1.250 (80), 2.89 (70), 1.207 (70), 1.148 (70), 1.054 (70)

Chemistry:	(1)	(2)
Ir	34.6	36.35
Pt	1.9	
Cu	0.1	
Te	24.6	24.13
Bi	38.5	39.52
Total	99.7	100.00

(1) Near Maying, China; by electron microprobe, average of 11 analyses; corresponding to  $(\text{Ir}_{0.95}\text{Pt}_{0.05})_{\Sigma=1.00}\text{Cu}_{0.01}\text{Bi}_{0.97}\text{Te}_{1.02}$ . (2) IrBiTe.

**Occurrence:** In chromite ore and placer concentrates.

**Association:** Platinum, iridisite, laurite, chromite, magnetite, gold, irarsite, shuanfengite.

**Distribution:** From near Maying, about 230 km north-northeast of Beijing, ??Hebei Province, China [TL]. [need check all Yu Zuxiang species for localities - 8 new from Yanshan Range?? including this, when done]

**Name:** For the locality.

**Type Material:** Geological Museum of China, Beijing, China.

**References:** (1) Yu Zuxiang (1995) Mayingite – a new iridium bismuth-telluride. Acta Mineral. Sinica, 15(1), 5–8 (in Chinese with English abs.). (2) (1996) Amer. Mineral., 81, 251 (abs. ref. 1).