©2001-2005 Mineral Data Publishing, version 1

Crystal Data: Cubic. Point Group: $4/m \ \overline{3} \ 2/m$. A component of polycrystalline globules, to 2 mm, typically associated with damiaoite, always in the interior.

Physical Properties: Tenacity: "weakly malleble." Hardness = 5.8 VHN = 573-681, 634 average (50 g load). D(meas.) = n.d. D(calc.) = 18.21

Optical Properties: Opaque. Color: Steel-black; bright white with a yellowish tint in reflected light. Streak: Black. Luster: Metallic.

Optical Class: Isotropic.

R: (400) 49.9, (420) 51.7, (440) 53.8, (460) 55.3, (480) 56.9, (500) 58.5, (520) 60.1, (540) 61.7, (560) 63.5, (580) 64.9, (600) 66.5, (620) 68.4, (640) 70.3, (660) 72.4, (680) 74.5, (700) 76.6

Cell Data: Space Group: Pm3m. a = 3.988(3) Z = 1

X-ray Powder Pattern: Near Damiao village, China. 2.30 (100), 1.203 (80), 1.99 (60), 1.41 (40), 1.151 (40), 0.997 (20), 1.33 (10)

Chemistry:

	(1)	(2)
Pt	82.8	83.60
In	16.4	16.40
Total	99.2	100.00

(1) Near Damiao village, China; by electron microprobe, averge of eight analyses. (2) Pt₃In.

Occurrence: In a contact metasomatic Co–Cu–Pt-bearing vein in garnet-amphibole pyroxenite in contact with anorthosite and granite.

Association: Moncheite, sperrylite, cooperite, damiaoite, cobaltian malanite, bornite, chalcopyrite, carrolite, magnetite.

Distribution: From near Damiao village and the Yixun River, about 270 km north of Beijing, Hebei Province, China [TL].

Name: For its occurrence near the Yixun River, China.

Type Material: n.d.

References: (1) Yu Zuxiang (1997) Yixunite – an ordered new native indium and platinum alloy. Acta Geol. Sinica, 71(4), 332–335 (in Chinese with English abs.). (2) (1998) Amer. Mineral., 83, 655 (abs. ref. 1).