

**Crystal Data:** Cubic. *Point Group:*  $4/m\bar{3}2/m$ . Massive, as grains, to 0.5 mm.

**Physical Properties:** Hardness = n.d. VHN = 309 D(meas.) = n.d. D(calc.) = 4.588

**Optical Properties:** Opaque. *Color:* Iron-black; in polished section, white. *Luster:* Metallic.

R: (400) 26.3, (420) 26.9, (440) 27.5, (460) 27.9, (480) 28.0, (500) 27.8, (520) 27.4, (540) 27.0, (560) 26.6, (580) 26.2, (600) 25.9, (620) 25.6, (640) 25.4, (660) 25.1, (680) 24.8, (700) 24.5

**Cell Data:** *Space Group:*  $Fd\bar{3}m$ .  $a = 10.618(3)$   $Z = 8$

**X-ray Powder Pattern:** Dzhhalinda deposit, Russia.

3.20 (100), 1.877 (90), 1.085 (80), 2.05 (70), 1.028 (70), 3.76 (50), 1.384 (50)

**Chemistry:**

	(1)	(2)
Fe	8.84	13.50
In	59.3	55.50
S	31.85	31.00
Total	99.99	100.00

(1) Dzhhalinda deposit, Russia; by microspectrographic analysis, corresponding to Fe<sub>0.64</sub>In<sub>2.08</sub>S<sub>4.00</sub>.

(2) FeIn<sub>2</sub>S<sub>4</sub>.

**Mineral Group:** Linnaeite group.

**Occurrence:** Of primary hydrothermal origin, replacing botryoidal cassiterite.

**Association:** Cassiterite, dzhhalindite.

**Distribution:** In the Dzhhalinda deposit, Little Khingan Ridge, Far Eastern Region, Russia [TL].

**Name:** For the indium in its composition.

**Type Material:** Mining Institute, St. Petersburg, 106a/1; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 62579.

**References:** (1) Genkin, A.D. and I.V. Murav'eva (1963) Indite and dzhhalindite – new indium minerals. *Zap. Vses. Mineral. Obshch.*, 92, 445–457 (in Russian). (2) (1964) *Amer. Mineral.*, 49, 439 (abs. ref. 1). (3) Hill, R.J., J.R. Craig, and G.V. Gibbs (1978) Cation ordering in the tetrahedral sites of the thiospinel FeIn<sub>2</sub>S<sub>4</sub> (indite). *J. Phys. Chem. Solids*, 39, 1105–1111.