

**Crystal Data:** Hexagonal. *Point Group:* 6mm. As irregular grains to 0.06 mm.

**Physical Properties:** *Cleavage:* Perfect on {001}. *Tenacity:* Brittle. *Fracture:* Conchoidal. Hardness = 5.5-6 D(meas.) = n.d. D(calc.) = 7.19

**Optical Properties:** Opaque. *Color:* Steel-gray; grayish white in reflected light. *Streak:* Black. *Luster:* Metallic.

*Optical Class:* Medium anisotropy.

R: (470) 42.74, (546) 46.70, (589) 48.59, (650) 51.10

**Cell Data:** *Space Group:* P6<sub>3</sub>mc. *a* = 18.839(2) *c* = 4.4960(9) *Z* = 6

**X-Ray Diffraction Pattern:** Calculated pattern.

6.920 (100), 2.023 (98), 3.596 (55), 1.798 (54), 2.105 (50), 1.825 (47), 2.493 (36)

<b>Chemistry:</b>	(1)
C	9.22
Fe	40.60
Ni	8.54
<u>Cr</u>	<u>41.38</u>
Total	99.74

(1) Luobasha mine, Tibet Autonomous Region, China; average electron microprobe analysis; corresponding to (Cr<sub>4.14</sub>Fe<sub>3.79</sub>Ni<sub>0.76</sub>)<sub>Σ=8.69</sub>C<sub>4</sub>.

**Occurrence:** In heavy mineral separates from an ophiolitic podiform chromitite.

**Association:** Cohenite, tongbaite, khamrabaevite, qusongite, diamond, moissanite, wüstite, iridium ("osmiridium"), osmium ("iridosmine"), periclase, chromite, native iron, native nickel, native chromium, forsterite, Cr-rich diopside, intermetallic compounds Ni-Fe-Cr, Ni-Cr, Cr-C.

**Distribution:** From the Luobasha mine, Qusum County, Shannan Prefecture, Tibet Autonomous Region, People's Republic of China.

**Name:** From the first part of the name of the river, *Yarlong Zangbo* River, near the Luobusha ophiolite.

**Type Material:** Geological Museum of China (M11650) and at the Institute of Geology, Chinese Academy of Geological Sciences, Beijing (45).

**References:** (1) Shi, N., W. Bai, G. Li, M. Xiong, Q. Fang, J. Yang, Z. Ma, and H. Rong (2008) Yarlongite: A new metallic carbide mineral. *Acta Geologica Sinica*, 83, 52-56.