

**Crystal Data:** Hexagonal. *Point Group:*  $\bar{3} 2/m$ . As droplet-like inclusions  $\leq 20 \mu\text{m}$  in roundish composite polymineralic grains.

**Physical Properties:** *Cleavage:* n.d. *Tenacity:* n.d. *Fracture:* n.d. Hardness = n.d.  
D(meas.) = n.d. D(calc.) = 6.30

**Optical Properties:** Opaque. *Color:* Gray to brownish gray in reflected light. *Streak:* n.d.  
*Luster:* Metallic.  
*Optical Class:* *Anisotropism:* Weak, gray to light yellow. *Pleochroism:* Slight to none, grayish to light brown tints.

**Cell Data:** *Space Group:*  $R\bar{3} m$ .  $a = 7.073(1)$   $c = 34.277(8)$   $Z = 3$

**X-Ray Diffraction Pattern:** Ko River, central Siberia, near Krasnoyarsk, Eastern Sayans, Russia. 3.011 (100), 1.770 (71), 1.758 (65), 2.799 (55), 2.996 (50), 5.774 (45), 3.053 (43)

Chemistry:	(1)	(2)
Ir	29.30	47.28
Rh	9.57	
Pt	1.85	
Ru	0.05	
Os	0.06	
Fe	13.09	27.48
Ni	12.18	
Cu	6.30	
Co	0.06	
S	27.23	25.24
Total	99.69	100.00

(1) Ko River, central Siberia, near Krasnoyarsk, Eastern Sayans, Russia; average electron microprobe analysis; corresponding to  $(\text{Ir}_{2.87}\text{Rh}_{1.75}\text{Pt}_{0.18}\text{Ru}_{0.01}\text{Os}_{0.01})_{\Sigma=4.82}(\text{Fe}_{4.41}\text{Ni}_{3.90}\text{Cu}_{1.87}\text{Co}_{0.02})_{\Sigma=10.20}\text{S}_{15.98}$ . (2) Ir<sub>5</sub>Fe<sub>10</sub>S<sub>16</sub>.

**Polymorphism & Series:** Member of the tamuraite-kuvaevite-torryweiserite solid-solution series.

**Mineral Group:** Fe-dominant analogue of kuvaevite.

**Occurrence:** In a fluvial placer deposit derived from ultramafic rocks of a layered complex.

**Association:** Rh-rich pentlandite, Ir-bearing members of the laurite-erlichmanite series, Ir-bearing osmium.

**Distribution:** From the Sisim Placer Zone, river Sisim basin, Ko River, southern portion of Krasnoyarskiy Kray, central Siberia, near Krasnoyarsk, southwestern Eastern Sayans, Russia.

**Name:** Honors Dr. Nobumichi *Tamura* (b. 1966), senior scientist at the Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, USA, for his innovative investigations of minerals and materials by synchrotron microdiffraction.

**Type Material:** Central Siberian Geological Museum, Sobolev Institute of Geology and Mineralogy, Novosibirsk, Russia (III-102/2).

**References:** (1) Barkov, A.Y., N.D. Tolstykh, R.F. Martin, and A.M. McDonald (2021) Tamuraite, Ir<sub>5</sub>Fe<sub>10</sub>S<sub>16</sub>, a new species of platinum-group mineral from the Sisim Placer Zone, Eastern Sayans, Russia. *Minerals*, 11(5), 545, 1-13. (2) (2022) *Amer. Mineral.*, 107, 779 (abs. ref. 1).