

**Crystal Data:** Cubic. *Point Group:*  $4/m \bar{3} 2/m$ . As  $<5 \mu\text{m}$  rounded grains (in schreibersite) or isometric (cubic) crystals (in daubréelite).

**Physical Properties:** *Cleavage:* n.d. *Tenacity:* Brittle. *Fracture:* n.d. Hardness = 9-10 (synthetic) D(meas.) = n.d. D(calc.) = 6.128 Nonfluorescent.

**Optical Properties:** Transparent. *Color:* Yellow, light gray with a pink tint in reflected light.

*Streak:* White. *Luster:* Metallic.

*Optical Class:*  $n = 2.3031$  (synthetic)

**Cell Data:** *Space Group:*  $Fm\bar{3} m$ .  $a = 4.1328(3)$   $Z = 4$

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

2.066 (100), 2.386 (71), 1.461 (61), 1.246 (29), 0.924 (21), 1.193 (19), 0.844(14)

Chemistry:	(1)	(2)
V	71.33	78.43
Cr	5.58	
Fe	1.56	
N	21.41	21.57
Total	99.88	100.00

(1) Uakit iron meteorite; average electron microprobe analysis; corresponds to  $(\text{V}_{0.91}\text{Cr}_{0.07}\text{Fe}_{0.02})_{1.00}\text{N}_{1.00}$ . (2) VN.

**Occurrence:** An accessory phase in an iron meteorite. Formed due to high-temperature ( $>1000^\circ\text{C}$ ) separation of Fe-Cr-rich sulfide liquid from Fe-metal melt.

**Association:** In troilite-daubréelite ( $\pm$ schreibersite) inclusions (to  $100 \mu\text{m}$ ) and in troilite-daubréelite nodules (to 1 cm) in Fe-Ni-metal (kamacite).

**Distribution** From the Uakit iron meteorite (IIAB) found in 2016 in the Baunt Evenk district, Republic of Buryatia, Russia.

**Name:** For the *Uakit* iron meteorite.

**Type Material:** Central Siberian Geological Museum, V.S. Sobolev Institute of Geology and Mineralogy, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia (52 - meteorite Uakit) and the Museum of the Buryatian Scientific Center, Siberian Branch of the Russian Academy of Sciences, Ulan-Ude, Russia (Uakit-MBSC435/G84).

**References:** (1) Sharygin, V.V., G.S. Ripp, G.A. Yakovlev, Y.V. Seryotkin, N.S. Karmanov, I.A. Izbrodin, V.I. Grokhovsky, and E.A. Khromova (2020) Uakitite, VN, a new mononitride mineral from Uakit iron meteorite (IIAB). Minerals, 10(2), 150, 1-19.