

Crystal Data: Hexagonal. *Point Group:* 6/m 2/m 2/m. As lath-shaped grains to 20 μm.

Physical Properties: *Cleavage:* Perfect on {0001}. *Tenacity:* Brittle. *Fracture:* n.d. Hardness = ~2 VHN = 73.4-111.7, 92 average (10 g load on synthetic Ni₂SbTe₂). D(meas.) = 7.79 D(calc.) = 7.88

Optical Properties: Opaque. *Color:* Silver grey; white-cream in reflected light. *Streak:* n.d. *Luster:* Metallic.

Optical Class: Anisotropic, weakly bireflectant. *Pleochroism:* Weak, pale light brown to pale brown. R₁-R₂: (470) 47.5-52.5, (546) 49.7-56.1, (589) 51.7-59.3, (650) 53.3-60.6 (synthetic Ni₂SbTe₂)

Cell Data: *Space Group:* P6₃/mmc. *a* = 3.9090(2) *c* = 15.6820(9) *Z* = 2

X-Ray Diffraction Pattern: Synthetic Ni₂SbTe₂.

1.9556 (100), 2.8421 (81), 1.6114 (23), 1.2437 (20), 2.0704 (16), 1.1291 (14), 3.3848 (13)

Chemistry:	(1)
Ni	22.92
Fe	1.29
Pd	1.29
Sb	23.65
Bi	0.33
Te	49.95
Total	99.43

(1) Kunratice Cu-Ni sulfide deposit, near Šluknov, northern Czech Republic; average electron microprobe analysis; corresponds to (Ni_{1.93}Fe_{0.11}Pd_{0.06})_{Σ=2.10}(Sb_{0.96}Bi_{0.01})_{Σ=0.97}Te_{1.93}.

Occurrence: In a calc-alkaline basalt dike likely the product of low-temperature hydrothermal alteration of primary minerals near pentlandite.

Association: Pentlandite, pyrrhotite, chalcopyrite, violarite, Ni-bearing pyrite, melonite, sperrylite, altaite.

Distribution: From the Kunratice Cu-Ni sulfide deposit, near Šluknov, northern Czech Republic.

Name: Honors mineralogist Dr. Ivan Vavřín (b. 1937) of the Czech Geological Survey, for his studies of tellurium minerals and contributions to research on Cu-Ni sulfide deposits.

Type Material: National Museum, Prague, Czech Republic (P1p10/2005).

References: (1) Laufek, F., M. Drábek, R. Skála, J. Haloda, Z. Táborský, and I. Císařová (2007) Vavřínite, Ni₂SbTe₂, a new mineral species from the Kunratice Cu-Ni sulfide deposit, Czech Republic. *Can. Mineral.*, 45(5), 1213-1219.