

**Crystal Data:** Hexagonal. *Point Group:* 6mm. As irregular grains to 20 μm.

**Physical Properties:** *Cleavage:* None. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = n.d.  
D(meas.) = n.d. D(calc.) = 6.249

**Optical Properties:** [Opaque.] *Color:* Dark gray, white with a beige tint in reflected light.  
*Streak:* n.d. *Luster:* Metallic.

*Optical Class:* Moderately anisotropic and birefractant.

R<sub>1</sub>-R<sub>2</sub>: (400) 40.3-34.5, (420) 41.5-35.2, (440) 42.5-36.3, (460) 43.7-37.3, (470) 44.3-36.6,  
(480) 44.8-35.8, (500) 46.2-39.6, (520) 47.7-40.7, (540) 48.9-41.9, (546) 49.2-42.1, (560) 50.0-42.7,  
(580) 50.9-43.7, (589) 51.3-44.1, (600) 51.7-44.5, (620) 52.4-45.3, (640) 53.0-45.8, (650) 53.3-46.1,  
(660) 53.6-46.5, (680) 54.2-46.9, (700) 55.0-47.5

**Cell Data:** Space Group: *P*6<sub>3</sub>*m*c. *a* = 6.8184(4) *c* = 11.0288(8) *Z* = 4

**X-ray Powder Pattern:** Calculated pattern.

1.735 (100), 2.015 (88), 1.908 (77), 1.938 (69), 1.705 (58), 2.498 (57), 2.069 (57)

Chemistry:	(1)	(2)
Ni	69.23	70.31
Fe	1.80	
P	29.59	29.69
Total	100.62	100.00

(1) Halamish Wadi, Southern Negev Desert, Israel; average of 3 electron microprobe analyses; corresponds to (Ni<sub>4.90</sub>Fe<sub>0.13</sub>)<sub>Σ=5.03</sub>P<sub>3.97</sub>. (2) Ni<sub>5</sub>P<sub>4</sub>.

**Occurrence:** In a phosphide assemblage related to the Fe-Ni-P system in a pyrometamorphic rock (Haturim Formation).

**Association:** Murashkoite, zuktamrurite, transjordanite, transjordanite.

**Distribution:** Along the upper stream of the Halamish Wadi, Haturim Basin, southern Negev Desert, Israel.

**Name:** For the locality, the *Halamish* Wadi, Israel, where the mineral was found.

**Type Material:** Mineralogical Museum, Department of Mineralogy, St. Petersburg State University, Russia (19606).

**References:** (1) Britvin, S.N., M. Murashko, Y. Vapnik, Y.S. Polekhovskiy, S.V. Krivovichev, O.S. Vereshchagin, V.V. Shilovskikh, N.S. Vlasenko, and M.G. Krzhizhanovskaya (2020) Halamishite, Ni<sub>5</sub>P<sub>4</sub>, a new terrestrial phosphide in the Ni-P system. *Physics and Chemistry of Minerals*, 47, 3. (2) (2020) *Amer. Mineral.*, 105(10), 1601-1603 (abs. ref. 1).