

Crystal Data: Triclinic. *Point Group:* $\bar{1}$. Elongated lath-like crystals form complex intergrowths and radial aggregates to 3 mm.

Physical Properties: *Cleavage:* Perfect on {010}. *Fracture:* Uneven. *Tenacity:* Very brittle. Hardness = 2-3 D(meas.) = n.d. D(calc.) = 3.295

Optical Properties: Transparent. *Color:* Pale green. *Streak:* Grayish white. *Luster:* Vitreous. *Optical Class:* Biaxial. $\alpha' = 1.653(2)$ $\gamma' = 1.73$ $n(\text{calc.}) = 1.651$ *Absorption:* $X < Z$. *Orientation:* $Z' \wedge c$ (elongation) = 14°. *Pleochroism:* Moderate to weak; $X = \text{colorless}$, $Z = \text{pale green to green}$.

Cell Data: *Space Group:* $P\bar{1}$. $a = 6.4010(6)$ $b = 8.0041(6)$ $c = 10.3969(14)$ $\alpha = 85.824(8)$ $\beta = 79.873(9)$ $\gamma = 84.655(7)^\circ$ $Z = 1$

X-ray Powder Pattern: Geister vein, Jáchymov (St Joachimsthal), Czech Republic. 10.211 (100), 7.974 (9), 3.984 (6), 3.656 (5), 3.631 (5), 3.241 (5), 3.145 (5)

Chemistry:	(1)	(2)
MgO	0.20	
FeO	0.10	
NiO	5.79	7.23
CoO	1.80	
CuO	29.53	30.81
ZnO	0.66	
Al ₂ O ₃	0.14	
P ₂ O ₅	0.11	
As ₂ O ₅	45.01	44.51
H ₂ O	[17.71]	17.45
Total	101.05	100.00

(1) Geister vein, Jáchymov (St Joachimsthal), Czech Republic; average of 12 electron microprobe analyses, H₂O from stoichiometry; corresponding to (Ni_{0.79}Co_{0.25}) $\Sigma=1.04$ (Cu_{3.78}Zn_{0.08}Mg_{0.05}Al_{0.03}Fe_{0.01}) $\Sigma=3.95$ (AsO₄)_{1.98}(PO₄)_{0.02}(AsO₃OH)_{2.00}(H₂O)_{9.00}. (2) NiCu₄(AsO₄)₂(AsO₃OH)₂(H₂O)₉.

Mineral Group: Lindackerite supergroup, lindackerite group.

Occurrence: A secondary mineral derived from highly-oxidized, hydrothermal quartz veins containing disseminated tennantite, chalcopyrite, and Ni-Co-arsenides.

Association: Veselovskýite, pradetite, lavendulan, arsenolite, babánekite, gypsum.

Distribution: From the Geister vein, third Geister level in the Rovnost (formerly Werner) mine, Jáchymov (St Joachimsthal), Western Bohemia, Czech Republic.

Name: Honors Jan Hloušek (1950-2014), a Czech mineralogist, collector and specialist in Jáchymov minerals.

Type Material: Department of Mineralogy and Petrology, National Museum, Prague, Czech Republic (PIP 3/2013).

References: (1) Plášil, J., J. Sejkora, R. Škoda, M. Novák, A.V. Kasatkin, P. Škácba, F. Veselovský, K. Fejfarová, and P. Ondruš (2014) Hloušekite, (Ni,Co)Cu₄(AsO₄)₂(AsO₃OH)₂(H₂O)₉, a new member of the lindackerite supergroup from Jáchymov, Czech Republic. *Mineral. Mag.*, 78(5), 1341-1353. (2) (2016) *Amer. Mineral.*, 101, 1493 (abs. ref. 1).