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Crystal Data: Orthorhombic. Point Group: 2/m 2/m or mm2. Crystals are lozenge-shaped, flattened on $\{001\}$, to 1 mm. May be in hemispherical aggregates; commonly porous to compact, massive.

Physical Properties: Cleavage: Perfect on $\{001\}$. Hardness = 2–3 D(meas.) = 1.93-1.99 D(calc.) = 1.935

Optical Properties: Translucent to opaque. *Color:* White, pale green, pale yellow, pale brown; colorless in transmitted light. *Luster:* Dull to waxy.

Optical Class: Biaxial (-). Orientation: X = c; Y = b; Z = a. $\alpha = 1.470-1.479$ $\beta = 1.477-1.488$ $\gamma = 1.482-1.490$ 2V(meas.) = $67^{\circ}-74^{\circ}$

Cell Data: Space Group: Pnam or $Pna2_1$. a = 10.754-10.764 b = 14.954-14.971 c = 20.526-22.675 Z = 2

X-ray Powder Pattern: Železník, Slovakia.

9.80 (vs), 9.20 (vs), 7.24 (vs), 2.90 (vs), 2.51 (ms), 2.127 (ms), 6.80 (m)

Chemistry:

	(1)	(2)	(3)	(4)
P_2O_5	31.32	32.43	31.83	32.96
CO_2	0.12			
Al_2O_3	28.33	29.01	27.09	28.93
Fe_2O_3	1.19	0.04	0.12	
Na_2O	0.05			
$\bar{\mathrm{K_2O}}$	0.16			
${\rm H_2O}$	38.97	37.72	40.01	38.11
insol.	0.24		0.50	
Total	100.38	99.20	99.55	100.00

(1) Železník, Slovakia. (2) Do.; $\rm H_2O$ by TGA; corresponds to $(\rm Al_{11.09}Fe_{0.01}^{3+})_{\Sigma=11.10}$ (PO₄)_{8.90}(OH)_{6.58}•37.51H₂O. (3) Chvaletice, Czech Republic; corresponds to $(\rm Al_{10.83}Fe_{0.03}^{3+})_{\Sigma=10.86}(PO_4)_{9.14}(OH)_{5.16}$ •42.68H₂O. (4) $\rm Al_{11}(PO_4)_9(OH)_6$ •38H₂O.

Occurrence: Filling cavities in boxwork "limonite" from an iron mine (Železník, Slovakia).

Association: Variscite, wavellite, evansite.

Distribution: From Zelezník (Vashegy), Slovakia. At Chvaletice, Czech Republic. From Haut-le-Wastia, Belgium. In the Feengrotten (Cave), near Saalfeld, Thuringia, Germany. In the USA, on the Van-Nav-Sand claim group, Fish Creek Range, 48 km south of Eureka, Eureka Co., and at the Train prospect, Manhattan district, Nye Co., Nevada.

Name: For its occurrence at Vashegy, Hungary (now Železník, Slovakia).

Type Material: Type specimen in Budapest destroyed in 1956; The Natural History Museum, London, England, 1910,101.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 999. (2) Johan, Z., E. Slansky, and P. Povondra (1983) Vashegyite, a sheet aluminum phosphate: new data. Can. Mineral., 21, 489–498. (3) McConnell, D. (1974) Are vashegyite and kingite hydrous aluminium phyllophosphates with kaolinite-type structures? Mineral. Mag., 39, 802–806.