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Crystal Data: Hexagonal. *Point Group:* n.d. Forms exhibited are $\{0001\}$, $\{11\overline{2}0\}$, $\{01\overline{1}2\}$, $\{10\overline{1}4\}$, $\{5\overline{1}42\}$ [*sic*]; xenomorphic granular.

Physical Properties: Fracture: Irregular. Hardness = 2 D(meas.) = 1.69 D(calc.) = 1.69Easily soluble in H₂O.

Optical Properties: Transparent. Color: Green. Luster: Vitreous. Optical Class: Uniaxial (–). Pleochroism: O = yellow-green; E = colorless. $\omega = 1.515$ $\epsilon = 1.417$

Cell Data: Space Group: n.d. a = 9.28 c = 36.67 Z = 6

X-ray Powder Pattern: n.d.

Chemistry:

	(1)	(2)
C_2O_4	50.36	50.75
Al	0.00	
Fe^{3+}	10.78	10.73
Fe^{2+}	0.00	
Mg	4.68	4.67
Na	4.48	4.42
Κ	0.00	
H_2O	29.73	29.43
Total	100.03	100.00

(1) Tyllakh deposit, Russia. (2) NaMgFe³⁺(C_2O_4)₃ • 8.5H₂O.

Occurrence: In thin veinlets in coal.

Association: Calcite, dolomite, whewellite, weddellite.

Distribution: From the Tyllakh brown coal deposit, left bank of the Olenhinskii channel near its mouth, estuary of the Lena River, Bulun district, polar Sakha, Russia.

Name: To honor Pavel Ivanovich Stepanov (1880–1947), Russian specialist in coal geology.

Type Material: Mining Institute, St. Petersburg, Russia, 1659/1.

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