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Crystal Data: [Monoclinic] (by analogy to pyrophyllite). *Point Group:* [2/m.] Fine-scaly, granular, compact.

Physical Properties: Tenacity: Waxy. Hardness = 1.5-2 D(meas.) = 2.97-3.01 D(calc.) = [3.05]

Optical Properties: Semitransparent. *Color:* Brownish yellow. *Optical Class:* Biaxial. *Pleochroism:* X = Y = greenish; Z = bright yellow. $\alpha = 1.650-1.660$ $\beta = 1.676-1.678$ $\gamma = 1.686-1.688$ 2V(meas.) = Small.

Cell Data: Space Group: n.d. a = 5.26 b = 9.10 c = 19.1 $\beta = 95^{\circ}30'$ Z = [4]

X-ray Powder Pattern: The Strassenschacht, Germany. 4.54 (10), 9.6 (8), 1.518 (8), 3.17 (7), 2.62 (4), 2.47 (4), 1.725 (3)

Chemistry: (1) The Strassenschacht, Germany; by electron microprobe, analysis not given, stated to correspond to $Fe_{1.96}^{3+}Mg_{0.11}Ca_{0.05}(Si_{3.80}Al_{0.13}Fe_{0.07}^{3+})_{\Sigma=4.00}O_{10}(OH)_2 \cdot H_2O.$ (2) Mt. Tologay, Kazakhstan; by electron microprobe, analysis not given, stated to correspond to $Fe_{1.97}^{3+}Ca_{0.18}(Na, K)_{0.03}Mg_{0.02}(Si_{3.74}Al_{0.23})_{\Sigma=3.97}O_{10}(OH)_2 \cdot 1.5H_2O.$

Polymorphism & Series: [Isostructural with the 2M modification of pyrophyllite.]

Occurrence: Found on museum specimens.

Association: n.d.

Distribution: From the Strassenschacht hematite deposit, south of Eibenstock, Saxony, Germany. At the Tulagai Pb–Cu deposit, near Akchatau, Kazakhstan.

Name: Presumably for its FERRIc iron content and relation to pyrophyllite.

Type Material: Moscow University, Moscow; A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 79071, vis5430, 5431.

References: (1) Chukhrov, F.V., B.B. Svyagin, V.A. Drits, A.I. Gorshkov, L.P. Ermilova, E.A. Goilo, and E.S. Rudnitskaya (1979) On ferripyrophyllite and related phases. Izv. Akad. Nauk SSSR, Ser. Geol. 2, 5–20 (in Russian). (2) (1979) Chem. Abs., 91, 24056 (abs. ref. 1). (3) Tschuchrow [Chukhrov], F.W., B.B. Swjagin [Svyagin], W.A. Driz [Drits], A.I. Gorschkow [Gorshkov], L.P. Jermilowa [Ermilova], E.A. Goilo, and E.S. Rudnitskaya [1979) Über Ferripyrophyllit. Chem. Erde, 38, 324–330 (in German). (4) (1980) Mineral. Abs., 31, 355–356 (abs. ref. 3).