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Crystal Data: Orthorhombic. *Point Group:* n.d. As compact oval to spherical growths with radiating fibrous structure, to 3 mm.

Physical Properties: Cleavage: One direction, pinacoidal. Fracture: Irregular. Hardness = n.d. VHN = 264 D(meas.) = 3.09 D(calc.) = 3.15 Pale violet fluorescence under UV.

Optical Properties: Transparent. Color: White. Luster: Vitreous. Optical Class: Biaxial (+). Orientation: Elongation negative. $\alpha = 1.413$ $\beta = \text{n.d.}$ $\gamma = 1.423$ $2\text{V}(\text{meas.}) = 74^{\circ}$

Cell Data: Space Group: n.d. a = 8.74(1) b = 5.53(3) c = 4.51(2) Z = [1]

X-ray Powder Pattern: Yaroslavsk deposit, Russia. 3.445 (10), 2.222 (8), 3.653 (7), 4.50 (6), 1.835 (6), 1.454 (6), 2.827 (5)

Chemistry:

	(1)	(2)
$\mathrm{Al_2O_3}$	21.55	24.50
MgO	0.24	
CaO	42.77	40.42
F	46.90	45.64
H_2O^+	8.97	8.66
$-O = F_2$	19.70	19.22
Total	[100.73]	100.00

(1) Yaroslavsk deposit, Russia; original total given as 100.77%; corresponds to $Ca_{3.09}Al_{1.76}F_{10.08}(OH)_2 \cdot H_2O$. (2) $Ca_3Al_2F_{10}(OH)_2 \cdot H_2O$.

Occurrence: From the oxidized zone of a banded sellaite-tourmaline-fluorite deposit.

Association: Sellaite, gearksutite, chukhrovite-(Ce).

Distribution: From Russia, in the Yaroslavsk tin deposit, 50 km south of Lake Khanka, Primorskiy Territory, Siberia.

Name: For its occurrence in the Yaroslavsk deposit, Russia.

Type Material: Vernadsky Geological Museum, Moscow, Russia.

References: (1) Novikova, M.I., G.A. Sidorenko, and M.N. Kuznetsova (1966) Yaroslavite – a new calcium aluminum fluoride. Zap. Vses. Mineral. Obshch., 95, 39–44 (in Russian). (2) (1966) Amer. Mineral., 51, 1546–1547 (abs. ref. 1).