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Crystal Data: Orthorhombic. Point Group: $2/m \ 2/m \ 2/m$ or mm2. Rare in platy to equant crystals, to 1.5 mm, which may be in fanlike aggregates; usually in powdery crusts.

Physical Properties: Cleavage: One, \bot {001}, perfect. Hardness = 2–2.5 D(meas.) = 4.0–4.2 (corrected for impurities). D(calc.) = 4.22 Radioactive; fluoresces pale tobacco-green under UV.

Optical Properties: Semitransparent. *Color:* Gold-yellow to canary-yellow. *Luster:* Silky to pearly.

Optical Class: Biaxial (-). Pleochroism: Weak; Y = yellow; Z = pale yellow. Orientation: X = c; Y = b; Z = a. $\alpha = 1.674-1.770$ $\beta = 1.855-1.907$ $\gamma = 1.880-1.915$ 2V(meas.) = Medium.

Cell Data: Space Group: Pnmm or Pnm2. a = 10.64(2) b = 8.36(2) c = 32.72(2) Z = 8

X-ray Powder Pattern: n.d.

7.68 (10), 3.95 (8), 4.08 (6), 3.20 (5), 8.18 (4), 2.007 (4), 3.55 (3)

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	(1)	(2)	(3)
UO_3	61.48	56.95	61.91
V_2O_5	21.30	18.50	19.68
SiO_2		4.40	
Al_2O_3		0.22	
CaO	0.40	1.44	
Na_2O	8.35	6.20	6.71
$\bar{\mathrm{K_2O}}$	0.00	0.20	
$\overline{\mathrm{H}_{2}^{-}}\mathrm{O}^{+}$	8.12	10.27	11.70
LŌI		2.23	
Total	99.65	100.41	100.00

(1) Basaral, Kazakhstan; CaO due to calcite impurity; corresponds to $Na_{2.28}(UO_2)_{1.84}$ (V_2O_8) • 3.85H₂O. (2) Do.; original LOI given as 12.50%, partitioned as H₂O 10.27%, CO₂ 1.15%, reduction of U⁶⁺ and V⁵⁺ 1.08%, then deducting SiO₂, Al₂O₃, CaO, K₂O as due to calcite and clay impurities, corresponds to $Na_{2.00}(UO_2)_{2.00}(V_2O_8)$ • 5.70H₂O. (3) $Na_2(UO_2)_2(V_2O_8)$ • 6H₂O.

Occurrence: Along seams and fractures in carbonaceous-siliceous shales.

Association: Calcite, quartz, iron hydroxides, clay minerals.

Distribution: From Basaral, ten km north of the Bota-Burum uranium deposit, Chi-Ili Mountains, Kazakhstan. In the Kendyktas Mountains, Kyzylkum district, Uzbekistan.

Name: To honor Professor Mikhail Fedorovich Strelkin (1905–1965), Russian mineralogist, Institute of Geology of Ore Deposits, Petrology, Mineralogy, and Geochemistry, Moscow, Russia, who studied uranium ores.

Type Material: A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia, 74783, 74784.

References: (1) Alekseeva, M.A., A.A. Chernikov, D.P. Shashkin, E.A. Kon'kova, and I.N. Gavrilova (1974) Strelkinite – a new uranyl vanadate. Zap. Vses. Mineral. Obshch., 103, 576–580 (in Russian). (2) (1975) Amer. Mineral., 60, 488–489 (abs. ref. 1). (3) Pekov, I.V. (1998) Minerals first discovered on the territory of the former Soviet Union, 195–196.