

Crystal Data: Monoclinic. *Point Group:* 2/m. As prismatic, lath-shaped to acicular crystals, to 0.5 mm, elongated on [010]; also as sprays or divergent groups to 1.5 mm, or as crusts.

Physical Properties: *Cleavage:* None. *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = ~ 3 D(meas.) = n.d. D(calc.) = 3.806 Radioactive.

Optical Properties: Transparent. *Color:* Bright yellow. *Streak:* Pale yellow. *Luster:* Vitreous. *Optical Class:* Biaxial (-). $\alpha = 1.625(2)$ $\beta = 1.735(5)$ $\gamma = 1.745(3)$ 2V(meas.) = 20(10)° 2V(calc.) = 32° *Dispersion:* Strong, $r > v$. *Pleochroism:* Strong, X = very pale yellowish-green, $Y = Z$ = light greenish yellow. *Absorption:* $Z > Y > X$.

Cell Data: *Space Group:* C2/m. $a = 17.91(2)$ $b = 6.985(9)$ $c = 6.594(9)$ $\beta = 99.89(2)^\circ$ $Z = 2$

X-ray Powder Pattern: Belorechenskoye deposit, Northern Caucasus, Russia. 8.93 (100), 4.463 (34), 2.846 (27), 3.008 (26), 3.523 (23), 3.276 (21), 4.883 (17)

Chemistry:	(1)	(2)
MgO	1.11	
FeO	0.24	
NiO	5.40	7.70
ZnO	0.23	
As ₂ O ₃	19.57	20.38
P ₂ O ₅	0.58	
UO ₃	59.43	58.93
H ₂ O	[13.44]	12.99
Total	100.00	100.00

(1) Belorechenskoye deposit, Northern Caucasus, Russia; average of 12 electron microprobe analyses, H₂O by difference, presence of H₂O, PO₄, UO₂, As³⁺O₄ groups confirmed by IR spectroscopy; corresponding to (Ni_{0.69}Mg_{0.26}Fe_{0.03}Zn_{0.03}) $\Sigma=1.01$ U_{1.97}(As³⁺_{1.88}P_{0.08}) $\Sigma=1.96$ O_{9.94}·7.06H₂O.
(2) Ni(UO₂)₂(As³⁺O₃)₂·7H₂O.

Mineral Group: Autunite group.

Occurrence: A secondary mineral found in small cavities and cracks in slightly oxidized uraninite-bearing dolomite veins.

Association: Rauchite, uraninite, nickeline, gersdorffite, limonite, annabergite.

Distribution: From adit #1, Belorechenskoye deposit, Belaya River basin, 60 km south of Maikop city, Adygea Republic, Northern Caucasus, Russia.

Name: Honors Russian mineralogist, Yuriy Maksimovich Dymkov (b. 1926), a specialist in the mineralogy and geology of uranium deposits.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4065/1).

References: (1) Pekov, I.V., V.V. Levitskiy, S.V. Krivovichev, A.A. Zolotarev, N.V. Chukanov, I.A. Bryzgalov, and A.E. Zadov (2012) New nickel-uranium-arsenic mineral species from the oxidation zone of the Belorechenskoye deposit, Northern Caucasus, Russia: II. Dymkovite, Ni(UO₂)₂(As³⁺O₃)₂·7H₂O, a seelite-related arsenite. *European Journal of Mineralogy*, 24(5), 923-930. (2) (2015) *Amer. Mineral.*, 100, 336-338 (abs. ref. 1).