

Crystal Data: Orthorhombic. *Point Group:* $mm2$. Crystals are prisms elongated on [001] and flattened on {100} and that exhibit {100}, {010} and {011}.

Physical Properties: *Cleavage:* Perfect on {010} and {010}. *Fracture:* Uneven.
Tenacity: Brittle. Hardness = ~ 2 D(meas.) = n.d. D(calc.) = 3.268
 Strong yellowish green fluorescence in SW and LW UV.

Optical Properties: Transparent to translucent. *Color:* Yellow. *Streak:* Very pale yellow.
Luster: Vitreous.
Optical Class: Biaxial (+). $\alpha = 1.548(2)$ $\beta = 1.556(3)$ $\gamma = 1.585(2)$ 2V(meas.) = n.d.
 2V(calc.) = 56° *Orientation:* $Z = c$.

Cell Data: *Space Group:* $Pnm2_1$. $a = 12.7850(3)$ $b = 8.2683(4)$ $c = 11.2163(3)$ $Z = 2$

X-ray Powder Pattern: Geschieber vein, Jáchymov, Western Bohemia, Czech Republic.
 6.398 (100), 5.060 (55), 8.279 (50), 3.318 (44), 3.009 (44), 4.645 (40), 4.610 (38)

Chemistry:	(1)	(2)
K ₂ O	7.93	8.05
MgO	3.11	3.43
CuO	0.79	
SO ₃	28.13	27.32
UO ₃	48.94	48.89
H ₂ O	[12.53]	12.31
Total	101.43	100.00

(1) Geschieber vein, Jáchymov, Western Bohemia, Czech Republic; average of 6 electron microprobe analyses supplemented by Raman spectroscopy, H₂O calculated; corresponding to $\text{K}_{1.94}(\text{Mg}_{0.89}\text{Cu}_{0.11})_{\Sigma=1.00}(\text{U}_{0.99}\text{O}_2)_2(\text{S}_{1.01}\text{O}_4)_4(\text{H}_2\text{O})_8$. (2) $\text{K}_2\text{Mg}[(\text{UO}_2)(\text{SO}_4)_2]_2 \cdot 8\text{H}_2\text{O}$.

Occurrence: As weathering products from the post-mining alteration of uraninite and sulfides in a Ag-Bi-Co-Ni-U bearing hydrothermal vein deposit.

Association: Geschieberite, adolfpateraite, gypsum, mathesiusite.

Distribution: From the Geschieber vein, Svornost mine, Jáchymov (Joachimsthal), Western Bohemia, Czech Republic.

Name: For the Svornost mine, the locality that produced the first specimens.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4537/1).

References: (1) Plášil, J., J. Hloušek, A.V. Kasatkin, M. Novák, J. Čejka and L. Lapčák (2015) Svornostite, $\text{K}_2\text{Mg}[(\text{UO}_2)(\text{SO}_4)_2]_2 \cdot 8\text{H}_2\text{O}$, a new uranyl sulfate mineral from Jáchymov, Czech Republic. *J. Geosciences*, 60, 113-121. (2) (2016) *Amer. Mineral.*, 101, 2570-2571 (abs. ref. 1).