

Crystal Data: Monoclinic. *Point Group:* 2/m. As lamellae, to 70 μm , and as zoned crystals to 0.8 mm.

Physical Properties: *Cleavage:* Perfect on {001}. *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = 4-4.5 VHN = 300 (50 g load). D(meas.) = 3.05(2) D(calc.) = 3.07(2) Fluoresces light-blue under SW UV.

Optical Properties: Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous, pearly on cleavage surfaces.

Optical Class: Biaxial (-). $\alpha = 1.629(2)$ $\beta = 1.635(4)$ $\gamma = 1.638(2)$ 2V(meas.) = n.d. 2V(calc.) = -70.3° *Dispersion:* Strong, $r > v$. *Elongation:* Positive.

Cell Data: *Space Group:* C2/c. $a = 17.01(2)$ $b = 9.751(6)$ $c = 21.00(2)$ $\beta = 112.45(8)^\circ$ Z = 4

X-ray Powder Pattern: Darai-Pioz glacier, Tajikistan.

3.234 (100), 2.894 (42), 2.425 (42), 3.206 (34), 3.712 (33), 3.039 (28), 1.950 (25)

Chemistry:

	(1)		(1)
SiO ₂	48.01	CaO	25.52
Al ₂ O ₃	0.07	SrO	0.39
TiO ₂	2.86	Na ₂ O	0.20
SnO ₂	12.84	K ₂ O	2.91
ZrO ₂	1.27	Li ₂ O	3.01
Nb ₂ O ₅	0.11	F	1.71
Fe ₂ O ₃	0.27	H ₂ O	[0.39]
Ce ₂ O ₃	0.04	$\frac{-\text{O} = \text{F}_2}{\text{Total}}$	$\frac{0.72}{99.10}$
MgO	0.05		

(1) Darai-Pioz glacier, Tajikistan; average of 17 electron microprobe analyses, H₂O calculated from stoichiometry, Li calculated from Li/K and Li/Ca ratios; corresponding to $(\text{K}_{0.93}\text{Na}_{0.10})_{\Sigma=1.03}\text{Li}_{3.02}(\text{Ca}_{6.82}\text{Sr}_{0.06}\text{Mn}_{0.04}\text{Mg}_{0.02})_{\Sigma=6.94}(\text{Sn}_{1.28}\text{Ti}_{0.54}\text{Zr}_{0.15}\text{Fe}_{0.05}\text{Nb}_{0.01})_{\Sigma=2.03}(\text{Si}_{11.98}\text{Al}_{0.02})_{\Sigma=12}\text{O}_{36.00}[\text{F}_{1.35}(\text{OH})_{0.65}]_{\Sigma=2.00}$.

Occurrence: In a zoned microcline-calcite vein with aegirine-hedenbergite, quartz, and albite in a glacial moraine boulder. The region contains carbonatites and an alkaline massif.

Association: Miserite, baratovite, katayamalite, Zr and hydroxyl analogues of alexandrovite, fluorite, Sn-titanite, bazirite, pabstite, Sn-sogdianite, sugilite, turkestanite, fluorapatite.

Distribution: From the Darai-Pioz glacier, at the junction of the Turkestan, Zeravshan, and Alay Mountain Ranges, Tajikistan.

Name: Honors the Russian geochemist, geologist, and mineralogist Stanislav Mikhailovich Aleksandrov (b. 1932) for his contributions to the geology, geochemistry, and mineralogy of tin.

Type Material: A.E. Fersman Mineral Museum, Academy of Sciences, Moscow, Russia (3825/1).

References: (1) Pautov, L.A., A.A. Agakhanov, V.Yu. Karpenko, and F.G. Gafurov (2010) Aleksandrovite $\text{KLi}_3\text{Ca}_7\text{Sn}_2[\text{Si}_6\text{O}_{18}]_2\text{F}_2$ - a new tin mineral. *Novye dannye o mineralakh*, 45, 5-16 (in Russian). New data on minerals, 45, 5-16 (in English). (2) (2012) *Amer. Mineral.*, 97, 1523 (abs. ref. 1).