

Crystal Data: Hexagonal. *Point Group:* $\bar{3} 2/m$. As equant anhedral grains to 2 cm.

Physical Properties: *Cleavage:* Distinct on {100}. *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = 6 VHN = 696-737, 714 average (100 g load). D(meas.) = 2.73. D(calc.) = 2.734 Dim dark purple fluorescence under SW UV.

Optical Properties: Transparent. *Color:* White to colorless. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Uniaxial (+). $\omega = 1.526(2)$ $\epsilon = 1.531(2)$

Cell Data: *Space Group:* $P\bar{3} m1$. $a = 14.3770(8)$ $c = 4.8786(3)$ $Z = 1$

X-ray Powder Pattern: Dara-i-Pioz glacier, South Tien-Shan Mountains, Tajikistan. 3.162 (100), 3.382 (75), 4.149 (50), 3.456 (40), 3.113 (36), 6.226 (35), 2.465 (30)

Chemistry:	(1)
Na ₂ O	13.53
K ₂ O	0.47
Cs ₂ O	7.25
Rb ₂ O	0.15
BeO	3.46
ZnO	1.71
Al ₂ O ₃	7.26
SiO ₂	64.32
F	2.84
- O = F	1.20
Total	99.79

(1) Dara-i-Pioz glacier, South Tien-Shan Mountains, Tajikistan; average electron microprobe analysis, BeO by colorimetry; corresponding to (Cs_{0.74}Na_{0.31}K_{0.14}Rb_{0.02}) $\Sigma=1.16$ Na_{6.00}[Be_{2.04}(Si_{15.46}Al_{2.06}Zn_{0.30}) $\Sigma=17.82$ O_{38.84}F_{2.16}].

Occurrence: In boulders from glacial moraine.

Association: Reedmergnerite, microcline, pectolite, hyalotekite, shibkovite, nordite-(Ce), leucophanite, kentbrooksitite, polyolithionite, albite.

Distribution: In moraine boulders, Dara-i-Pioz glacier, South Tien-Shan Mountains, Tajikistan.

Name: Honors petrographer and teacher Tamara Matveyevna *Telyushenko* (1930-1997) for her contributions to understanding the geology of Central Asia and service as head of the Young Geologists' School of Ashkhabad for over thirty years.

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

References: (1) Agakhanov, A.A., L.A. Pautov, D.I. Belakovskiy, E.V. Sokolova, and F.C. Hawthorne (2003) Telyushenkoite CsNa₆[Be₂(Si,Al,Zn)₁₈O₃₉F₂]: a new cesium mineral of the leifite group. *New Data on Minerals*, 38, 5-8. (2) Sokolova, E., D.M.C. Huminicki, F.C. Hawthorne, A.A. Agakhanov, L.A. Pautov, and E.S. Grew (2002) The crystal chemistry of telyushenkoite and leifite, ANa₆[Be₂Al₃Si₁₅O₃₉F₂], A = Cs,Na. *Can. Mineral.*, 40, 183-192. (3) (2004) *Amer. Mineral.*, 89(10), 1577-1578 (abs. refs. 1 & 2).