

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As prismatic grains and needle-like crystals to 2 cm, showing {110}, {001}, {010}, {100}, and {021}. Epitaxial intergrowths with elpidite and irregular intergrowths with labuntsovite are common.

Physical Properties: *Cleavage:* Imperfect on {001}. *Tenacity:* Brittle. *Fracture:* Uneven. Hardness = ~5 VHN = 620(50) (25 g load). D(meas.) = 2.72 D(calc.) = 2.68 Korobitsynite and nenaskevichite are megascopically indistinguishable.

Optical Properties: Transparent. *Color:* Colorless. *Luster:* Vitreous.

Optical Class: Biaxial (+) $\alpha = 1.646\text{--}1.650(2)$ $\beta = 1.654\text{--}1.658(2)$ $\gamma = 1.763\text{--}1.780(5)$ 2V(meas.) = 30° *Orientation:* X = b, Y = c, Z = a.

Cell Data: Space Group: Pbam. $a = 7.349(2)$ $b = 14.164(2)$ $c = 7.130(1)$ $Z = 2$

X-ray Powder Pattern: Lovozerovo massif, Kola Peninsula, Russia.
3.262 (100), 6.53 (85), 7.09 (79), 2.075 (57), 2.553 (56), 3.180 (52)

Chemistry:

	(1)
Na ₂ O	13.87
K ₂ O	0.03
BaO	0.54
ZrO ₂	0.04
TiO ₂	21.38
SiO ₂	40.91
Nb ₂ O ₅	10.14
<u>H₂O</u>	12.20
Total	99.11

(1) Lovozerovo massif, Kola Peninsula, Russia; by electron microprobe analysis, H₂O by TGA; corresponding to Na_{2.62}Ba_{0.02}(Ti_{1.57}Nb_{0.45})_{Σ=2.02}[Si₄O₁₂][(OH)_{1.13}O_{1.03}]_{Σ=2.16}·3.4H₂O.

Mineral Group: Labuntsovite-group, nenaskevichite subgroup.

Occurrence: In miarolitic cavities in pegmatite.

Association: At Mt. Alluaiv: albite, aegirine, shortite, rhodochrosite, epididymite, leifite, tainiolite, pyrrhotite, thermonatrite, nahpoite, amorphous bitumen; or albite, aegirine, elpidite, lorenzenite, sphalerite, galena, shomiokite-(Y), trona, natron, natroxalate; or elpidite, quartz, epididymite, aegirine, sidorenkite, sphalerite, löllingite, pyrrhotite, belovite-(Ce). At Mt. Kasnasurt: in nests of a cryptocrystalline Na-Fe hydrosilicate, natrolite, apophyllite, fluorite, sphalerite, galena, molybdenite.

Distribution: At Mts. Alluaiv and Karnasurt, Lovozerovo massif, Kola Peninsula, Russia. From the Aris phonolites, Windhoek, Namibia.

Name: For amateur mineralogist Mikhail Fyodorovich *Korobitsyn* (1928-1996), for significant contributions to the mineralogy of the Lovozerovo massif.

Type Material: A.E. Fersman Mineralogical Museum, Moscow, Russia.

References: (1) Pekov, I.V., N.V. Chukanov, A.P. Khomyakov, R.K. Rastsvetaeva, Ya.V. Kucherinenko, and V.V. Nedel'ko (1999) Korobitsynite, Na_{3-x}(Ti,Nb)₂[Si₄O₁₂](OH,O)₂·3-4H₂O, a new mineral from Lovozerovo massif, Kola Peninsula. Zapiski VMO, 3, 72-79 (in Russian). (2) (2000) Amer. Mineral., 85, 1322-1323 (abs. ref. 1). (3) Chukanov, N.V., I.V. Pekov, and A.P. Khomyakov (2002) Recommended nomenclature for labuntsovite-group minerals. Eur. J. Mineral., 14, 165-173. (4) Niedermayr, G., R. Gault, A. Petersen, and O.V.F. Brandstätter (2002) Korobitsynite from the Aris phonolites, Windhoek, Namibia. N. Jb. Miner. Mh., 42-48.