

Crystal Data: Triclinic. *Point Group:* $\bar{1}$. As platy crystals to 180 μm . *Twinning:* Ubiquitous.

Physical Properties: *Cleavage:* Perfect, on {001}. *Fracture:* Uneven. *Tenacity:* n.d.
Hardness = ~ 3 D(meas.) = n.d. D(calc.) = 3.243

Optical Properties: Transparent. *Color:* Colorless to pale tan. *Streak:* White. *Luster:* Vitreous.
Optical Class: Biaxial (+). $\alpha = 1.760(5)$ $\beta = 1.770(5)$ $\gamma = 1.795(5)$ $2V(\text{meas.}) = 69(2)^\circ$
 $2V(\text{calc.}) = 65^\circ$ *Dispersion:* Medium, $r > v$. *Pleochroism:* None.
Orientation:

	<i>a</i>	<i>b</i>	<i>c</i>
<i>X</i>	85.0°	94.8°	11.1°
<i>Y</i>	60.1°	30.0°	93.9°
<i>Z</i>	149.6°	60.5°	79.6°

Cell Data: *Space Group:* $P\bar{1}$. $a = 5.437(2)$ $b = 7.141(3)$ $c = 21.69(1)$ $\alpha = 92.97(1)^\circ$
 $\beta = 96.07(1)^\circ$ $\gamma = 90.01(1)^\circ$ $Z = 2$

X-ray Powder Pattern: Kirovskii mine, Khibiny alkaline massif, Kola Peninsula, Russia.
21.539 (100), 2.790 (15), 2.692 (14), 3.077 (13), 7.180 (11), 2.865 (11), 2.887 (9)

Chemistry:	(1)		(1)
Nb ₂ O ₅	12.24	SrO	2.51
TiO ₂	20.37	CaO	1.76
SiO ₂	29.07	K ₂ O	0.77
Al ₂ O ₃	0.08	Na ₂ O	8.39
FeO	0.32	H ₂ O	[5.77]
MnO	5.87	F	1.71
MgO	0.04	<u>-O = F₂</u>	<u>0.72</u>
BaO	11.31	Total	99.49

(1) Kirovskii mine, Khibiny alkaline massif, Kola Peninsula, Russia; average of 22 electron microprobe analyses supplemented by IR spectroscopy, H₂O from stoichiometry; corresponding to (Ba_{0.61}Sr_{0.20}K_{0.13}□_{0.06}) $\Sigma=1$ (□_{0.74}Ca_{0.26}) $\Sigma=1$ (Na_{2.22}Mn_{0.55}Fe²⁺_{0.04}□_{0.19}) $\Sigma=3$ Si_{3.97}O_{19.26}H_{5.26}F_{0.74}.

Occurrence: In a hydrothermally-altered pegmatite body emplaced in nepheline syenite.

Association: Natrolite, barytolamprophyllite, kazanskyite, nechelyustovite, hydroxylapatite, belovite-(La), belovite-(Ce), gaidonnayite, nenadkevichite, epididymite, apophyllite-(KF), sphalerite.

Distribution: From the Kirovskii mine (+252 level), Mount Kukisvumchorr, Khibiny alkaline massif, Kola Peninsula, Russia.

Name: Honors the *Saami*, indigenous people populating parts of the Kola Peninsula in Russia, Norway, Sweden, and Finland.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4432/1, 4432/2).

References: (1) Cámara, F., E. Sokolova, Y.A. Abdu and F.C. Hawthorne (2014) Saamite, Ba□TiNbNa₃Ti(Si₂O₇)₂O₂(OH)₂(H₂O)₂, a group-III Ti-disilicate mineral from the Khibiny alkaline massif, Kola Peninsula, Russia: description and crystal structure. *Can. Mineral.*, 52(4), 745-762.
(2) (2016) *Amer. Mineral.*, 101, 1018-1019 (abs. ref. 1).