

**Crystal Data:** Triclinic. *Point Group:*  $\bar{1}$ . As platy crystals to 180  $\mu\text{m}$ . *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>
X	85.0°	94.8°	11.1°
Y	60.1°	30.0°	93.9°
Z	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 <sub>2</sub> O <sub>5</sub>	12.24	SrO	2.51
TiO <sub>2</sub>	20.37	CaO	1.76
SiO <sub>2</sub>	29.07	K <sub>2</sub> O	0.77
Al <sub>2</sub> O <sub>3</sub>	0.08	Na <sub>2</sub> O	8.39
FeO	0.32	H <sub>2</sub> O	[5.77]
MnO	5.87	F	1.71
MgO	0.04	<u>-O = F<sub>2</sub></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, H<sub>2</sub>O from stoichiometry; corresponding to (Ba<sub>0.61</sub>Sr<sub>0.20</sub>K<sub>0.13</sub>□<sub>0.06</sub>) $\Sigma=1$ (□<sub>0.74</sub>Ca<sub>0.26</sub>) $\Sigma=1$ (Na<sub>2.22</sub>Mn<sub>0.55</sub>Fe<sup>2+</sup><sub>0.04</sub>□<sub>0.19</sub>) $\Sigma=3$ Si<sub>3.97</sub>O<sub>19.26</sub>H<sub>5.26</sub>F<sub>0.74</sub>.

**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□TiNbNa<sub>3</sub>Ti(Si<sub>2</sub>O<sub>7</sub>)<sub>2</sub>O<sub>2</sub>(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>, 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).