(c)2001 Mineral Data Publishing, version 1.2

Crystal Data: Hexagonal. Point Group: $6/m \ 2/m \ 2/m$, $\overline{6}m2$, or 6mm. As lamellar aggregates up to 15 mm. Twinning: Polysynthetic twinning may be observed.

Physical Properties: Fracture: Conchoidal. Hardness = \sim 4 D(meas.) = 3.6 D(calc.) = 3.7

Optical Properties: Transparent to translucent. Color: Brownish yellow. Luster: Resinous. Optical Class: Uniaxial (+). $\omega = 1.689$ $\epsilon = 1.695$

Cell Data: Space Group: $P6_3/mcm$, $P\overline{6}c2$, or $P6_3cm$. a = 10.80(4) c = 20.31(7) Z = 3

X-ray Powder Pattern: Ilímaussaq intrusion, Greenland. 2.67 (10), 3.25 (6), 3.12 (5), 2.98 (4), 2.24 (3), 2.50 (2), 2.022 (2b)

Chemistry:

	(1)	(2)
SiO_2	31.28	31.81
$\overline{\text{TiO}_{2}}$	1.64	
$\mathrm{Ce_2O_3}$		10.86
RE_2O_3	10.60	
$\mathrm{Fe_2O_3}$	3.18	5.29
Nb_2O_5	13.20	17.59
BaO	23.62	20.29
Na_2O	7.00	8.20
K_2O	3.80	
H_2^-O		5.96
LŌI	6.43	
Total	100.75	100.00

(1) Ilímaussaq intrusion, Greenland; alkalis by flame photometry, RE in proportions $Ce_{55}La_{23.6}Nd_{14.7}Pr_{6.7}$. (2) $Ba_2Na_4CeFeNb_2Si_8O_{28} \cdot 5H_2O$.

Occurrence: In a hydrothermal ussing ite-analcime vein cutting sodalite syenite in an alkalic massif.

Association: Chkalovite, epistolite.

Distribution: At Nákâlâq, in the Ilímaussaq intrusion, southern Greenland.

Name: For the Ilímaussaq intrusion, where it was discovered.

Type Material: n.d.

References: (1) Semenov, E.I., M.E. Kazakova, and V.J. Bukin (1968) Ilimaussite, a new rare-earth-niobium-barium silicate from Ilímaussaq, South Greenland. Medd. Grønland, 181(7), 3–7. (2) (1969) Amer. Mineral., 54, 992–993 (abs. ref. 1).