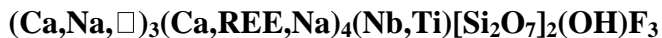


Roumaite

Crystal Data: Monoclinic. *Point Group:* *m*. As acicular crystals, to 0.5 mm, elongate on [100]. Some individuals appear tabular on (001) by parallel growth of individual fibers.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* Brittle. *D*(meas.) = n.d. *D*(calc.) = 3.33 *Hardness* = n.d.

Optical Properties: Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Silky. *Optical Class:* n.d. *n* = 1.652- 1.654 *Pleochroism:* None. Extinction angle on [100] = 4°; positive elongation and weak birefringence.

Cell Data: *Space Group:* *Cc*. *a* = 7.473(2) *b* = 11.294(2) *c* = 18.778(4) β = 101.60(2)° *Z* = 4

X-ray Powder Pattern: Rouma Island, Los Archipelago, Guinea.

3.057 (100), 2.021 (67.7), 1.680 (60.1), 2.689 (46.4), 2.567 (44.4), 2.790 (40.1), 2.004 (32.5)

Chemistry:	(1)
SiO ₂	29.78
TiO ₂	2.91
ZrO ₂	0.02
ThO ₂	0.07
Y ₂ O ₃	0.67
Ce ₂ O ₃	13.15
La ₂ O ₃	5.02
Nd ₂ O ₃	2.28
CaO	20.61
MnO	0.02
Na ₂ O	7.83
Nb ₂ O ₅	10.51
F	6.46
-O=F	2.72
Total	96.61

(1) Rouma Island, Los Archipelago, Guinea; average of 6 electron microprobe analyses supplemented by Raman spectroscopy, low analytical total attributed to loss of H₂O under the electron beam; corresponds to (Ca_{2.97}Na_{2.04}Ce_{0.65}La_{0.25}Nd_{0.11}Y_{0.05}) Σ =6.07(Nb_{0.64}Ti_{0.29}) Σ =0.93 (Si₂O₇)₂F_{2.75}O_{0.38}.

Occurrence: A late-stage product of hydrothermal activity in cavities in nepheline syenite associated with a peralkaline complex.

Association: Aegirine, albite, analcime, arfvedsonite, catapleiite, a eudialyte-group mineral, microcline, sodalite, sphalerite, steacyite, villiaumite.

Distribution: From Rouma Island, Los Archipelago, Guinea.

Name: For *Rouma* Island, a central island in the lagoon of the Los Archipelago, Guinea, where the first specimens were collected. Distribution of REE insufficiently defined for determination of a Levinson suffix.

Type Material: Museum of Natural History, Paris, France (MNHN208.1) and the Museum of Natural History, University of Pisa, Italy (#18873).

References: (1) Biagioni, C., E. Bonaccorsi, S. Merlino, G.C. Parodi, N. Perchiazzi, V. Chevrier, and D. Bersani (2010) Roumaite, (Ca,Na, \square)₃(Ca,REE,Na)₄(Nb,Ti)[Si₂O₇]₂(OH)F₃, from Rouma Island, Los Archipelago, Guinea: a new mineral species related to dovyrenite. *Can Mineral.*, 48, 17-28. (2) (2011) *Amer. Mineral.*, 96, 1658-1659 (abs. ref. 1).