

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As spherulites, to 1.5 cm, and crystals to 8 mm, showing mainly {100}.

Physical Properties: *Cleavage:* Perfect {100}. *Tenacity:* Brittle. *Fracture:* Uneven. Hardness = 5 D(meas.) = 3.54(2) D(calc.) = 3.62(1) Nonfluorescent.

Optical Properties: Transparent. *Color:* Colorless to pale brown. *Streak:* White. *Luster:* Vitreous to greasy.

Optical Class: Biaxial (-). $\alpha = 1.624(1)$ $\beta = 1.637(1)$ $\gamma = 1.644(1)$ 2V(meas.) = 60(15)^o 2V(calc.) = 72(12)^o *Dispersion:* Weak, $r > v$. *Orientation:* X = a, Z = b, Y = c.

Cell Data: *Space Group:* Pcca (by analogy to other members of the nordite group).
a = 14.440(5) b = 5.191(2) c = 19.86(1) Z = 4

X-ray Powder Pattern: Mount Bol'shoi Punkaruaiiv, Lovozero massif, Kola Peninsula, Russia.
4.21 (100), 2.873 (99), 2.964 (88), 3.323 (82), 2.595 (58), 2.442 (44), 7.20 (40)

Chemistry:	(1)
Na ₂ O	11.23
CaO	0.53
SrO	12.69
BaO	0.36
MgO	0.30
MnO	2.50
FeO	3.75
ZnO	2.29
La ₂ O ₃	11.36
Ce ₂ O ₃	8.21
Pr ₂ O ₃	1.00
Nd ₂ O ₃	0.89
Al ₂ O ₃	0.14
SiO ₂	44.06
Total	99.31

(1) Mount Bol'shoi Punkaruaiiv, Lovozero massif, Kola Peninsula, Russia; average electron microprobe analysis; corresponds to (Na_{2.92}Ca_{0.08}) $\Sigma=3.00$ (Sr_{0.99}Ba_{0.02}) $\Sigma=1.01$ (La_{0.57}Ce_{0.41}Pr_{0.05}Nd_{0.04}) $\Sigma=1.07$ (Fe_{0.43}Mn_{0.29}Zn_{0.23}Mg_{0.06}) $\Sigma=1.01$ (Si_{5.92}Al_{0.02}) $\Sigma=5.94$ O₁₇.

Mineral Group: Nordite supergroup, nordite group (Sr dominant in the X site).

Occurrence: In the ussingite core of hyperagpaitic pegmatite.

Association: Aegirine, epistolite, steenstrupine-(Ce), serandite, sphalerite.

Distribution: At Mount Bol'shoi Punkaruaiiv, Lovozero alkaline massif, Kola Peninsula, Russia.

Name: A member of the *nordite* group with a prefix, *ferro*, that indicates dominant Fe²⁺ in the tetrahedral structural site and a suffix for the dominant rare earth element.

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

References: (1) Pekov, I.V., N.V. Chukanov, A.G. Turchkova, and V.G. Grishin (2001) Ferronordite-(La), Na₃Sr(La,Ce)FeSi₆O₁₇, a new mineral of the nordite group from the Lovozero massif, Kola Peninsula. Zap. Vseross. Mineral. Obshch., 130(2), 53-58 (in Russian, English abs.). (2) (2002) Amer. Mineral., 87, 1510 (abs. ref. 1). (3) Bo, F.D., E.H. Gulbransen, and H. Friis (2021) New data on nordite-(Ce) and the establishment of the nordite supergroup. Mineral. Mag., 85(3), 431-437.