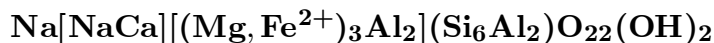


Magnesiotaramite

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Crystal Data: [Monoclinic.] *Point Group:* [2/m.] [Prismatic.]**Physical Properties:** *Cleavage:* [Perfect on {110}, intersecting at ~56° and ~124°; partings on {100}, {001}.] *Tenacity:* [Brittle.] *Hardness =* [5–6] *D(meas.) =* n.d. *D(calc.) =* [3.13]**Optical Properties:** Semitransparent. *Color:* [Black to blue-green.] *Luster:* [Vitreous.]
Optical Class: [Biaxial.] $\alpha =$ n.d. $\beta =$ n.d. $\gamma =$ n.d. *2V(meas.) =* n.d.**Cell Data:** *Space Group:* [C2/m.] $a = 9.778(1)$ $b = 17.859(2)$ $c = 5.310(1)$
 $\beta = 104.82(1)^\circ$ $Z = [2]$ **X-ray Powder Pattern:** n.d.**Chemistry:**

	(1)
SiO ₂	43.57
TiO ₂	0.36
Al ₂ O ₃	17.66
FeO	8.27
MnO	0.13
NiO	0.04
MgO	12.65
CaO	6.92
Na ₂ O	7.07
K ₂ O	0.00
F	0.01
Cl	0.01
Total	96.69

(1) Nordfjord, Norway; by electron microprobe, Fe²⁺:Fe³⁺ calculated; corresponding to (Na_{1.94}Ca_{1.06})_{Σ=3.00}(Mg_{2.93}Al_{1.12}Fe_{0.50}³⁺Fe_{0.41}²⁺Ti_{0.04})_{Σ=5.00}(Si_{6.24}Al_{1.76})_{Σ=8.00}O₂₂(OH)₂.**Polymorphism & Series:** Forms a series with taramite.**Mineral Group:** Amphibole (sodic-calcic) group: Mg/(Mg + Fe²⁺) ≥ 0.5; (Na + K)_A ≥ 0.5; 0.67 Na_B 1.33; (Ca + Na)_B ≥ 1.34; Si < 6.5.**Occurrence:** An unusual product of the retrograde metamorphism of eclogitic rocks.**Association:** Plagioclase, clinopyroxene.**Distribution:** In the Nybø eclogite pod, Nordfjord, Norway.**Name:** For *magnesium* in its composition and similarity to *taramite*.**Type Material:** n.d.**References:** (1) Ungaretti, L., D.C. Smith, and G. Rossi (1981) Crystal-chemistry by X-ray structure refinement and electron microprobe analysis of a series of sodic-calcic to alkali-amphiboles from the Nybø eclogite pod, Norway. *Bull. Minéral.*, 104, 400–412. (2) (1982) *Amer. Mineral.*, 67, 858 (abs. ref. 1).