

Crystal Data: Tetragonal. *Point Group:* 4/*m*. As small, euhedral, pyramidal crystals, to 1 mm. *Twinning:* Commonly twinned, polysynthetically on {001}.

Physical Properties: *Cleavage:* Poor on {001}. *Fracture:* Conchoidal. *Tenacity:* Brittle. Hardness = 5.5–6 D(meas.) = 2.94 D(calc.) = 2.86 Strongly piezoelectric.

Optical Properties: Transparent. *Color:* Colorless to light yellowish. *Luster:* Vitreous. *Optical Class:* Uniaxial (-); may be abnormally biaxial. $\omega = 1.647$ $\epsilon = 1.637$

Cell Data: *Space Group:* P4₂/*n*. $a = 9.865(2)$ $c = 9.930(2)$ $Z = 4$

X-ray Powder Pattern: Långban, Sweden.
2.614 (100), 2.84 (90), 4.02 (80), 2.141 (80), 6.97 (70), 4.40 (70), 3.48 (70)

Chemistry:	(1)	(2)
SiO ₂	42.49	43.28
Al ₂ O ₃	4.41	
Fe ₂ O ₃	0.31	
MnO	0.19	
BeO	6.20	12.01
CaO	40.27	40.39
H ₂ O	6.45	4.32
Total	[100.32]	100.00

(1) Långban, Sweden; original total given as 100.33%. (2) Ca₃Be₂Si₃O₁₀(OH)₂.

Occurrence: In cavities in massive magnetite (Långban, Sweden); in fluorite veins at the contact between marbles and “hornblende” granites associated with hastingsite nepheline syenites (Dugdinsk massif, Russia); in fluorite veins in tinguaitite and nephelinite dikes (Bayankolsk dike field, Russia).

Association: Magnetite, goethite (Långban, Sweden); fluorite (Russia).

Distribution: From Långban, Värmland, Sweden. In Russia, found in the Bayankolsk dike field, Tuva, and in the Dugdinsk massif; also in the Lake Baikal area, eastern Siberia. From Hall’s Grampians, eight km northwest of Emmaville, New South Wales, Australia.

Name: To honor Dr. Gregori Aminoff (1883–1947), Swedish mineralogist and expert on Långban mineralogy, associated with the Riksmuseum, Stockholm, Sweden.

Type Material: Harvard University, Cambridge, Massachusetts, 94627, 106916, 106917; National Museum of Natural History, Washington, D.C., USA, 137291, R7823; The Natural History Museum, London, England, 1984,423.

References: (1) Hurlbut, C.S. (1937) Aminoffite, a new mineral from Långban, Sweden. *Geol. Fören. Förhandl. Stockholm*, 59, 290–292. (2) (1938) *Amer. Mineral.*, 23, 293 (abs. ref. 1). (3) Mandarino, J.A. (1964) X-ray powder data for aminoffite. *Amer. Mineral.*, 49, 212–214. (4) Moore, P.B. (1968) Relation of the manganese-calcium silicates, gageite and harstigitite: a correction. *Amer. Mineral.*, 53, 1418–1420. (5) Coda, A., G. Rossi, and L. Ungaretti (1967) The crystal structure of aminoffite. *Atti Rend. Accad. Lincei*, 43(3–4), 225–232. (6) (1968) *Chem. Abs.*, 69, 71315 (abs. ref. 5). (7) (1967) *Str. Rep.*, 32, 466–467 (abs. ref. 5).