

Crystal Data: Monoclinic. *Point Group:* 2/m. As prismatic crystals to 200 μm.

Physical Properties: *Cleavage:* Perfect on {110}. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.190

Optical Properties: Transparent. *Color:* Brown. *Streak:* n.d. *Luster:* Vitreous. *Optical Class:* n.d.

Cell Data: *Space Group:* C2/m. *a* = 9.8378(8) *b* = 18.0562(9) *c* = 5.3027(3) *β* = 105.199(9)° *Z* = 2

X-ray Powder Pattern: Harrow Peaks, Victoria Land, Antarctica. 8.4 (s), 2.707 (s), 3.379 (ms), 3.115 (ms), 2.598 (ms), 3.266 (m), 2.938 (m)

Chemistry:	(1)	(2)
SiO ₂	41.69	40.68
TiO ₂	5.30	9.01
Al ₂ O ₃	13.65	11.51
Cr ₂ O ₃	0.09	
Fe ₂ O ₃	4.52	9.01
MgO	15.54	13.64
CaO	11.03	12.65
MnO	0.11	
FeO	2.83	
Na ₂ O	2.88	3.50
K ₂ O	0.96	
H ₂ O	0.70	
F	0.24	
Cl	0.08	
-O = (F,Cl) ₂	0.12	
Total	99.50	100.00

(1) Harrow Peaks, Victoria Land, Antarctica; average of 10 electron microprobe analyses supplemented by SIM and Mössbauer spectroscopy; corresponds to

(Na_{0.816}K_{0.179})_{Σ=0.995}(Ca_{1.726}Fe²⁺_{0.258}Mn_{0.014})_{Σ=1.998}(Mg_{3.383}Fe²⁺_{0.088}Ti_{0.582}Fe³⁺_{0.497}Al_{0.439}Cr_{0.011})_{Σ=5.00}(Si_{6.089}Al_{1.911})_{Σ=8.00}O₂₂[O_{1.187}(OH)_{0.682}F_{0.111}Cl_{0.020}]_{Σ=2.00}. (2) NaCa₂(Mg₃TiFe³⁺)(Si₆Al₂)O₂₂O₂.

Mineral Group: Amphibole supergroup, oxo-amphibole group.

Occurrence: In an ultramafic (spinel-bearing lherzolite) mantle xenolith in alkaline mafic rock.

Association: Forsterite, diopside, Cr-bearing spinel.

Distribution: From Harrow Peaks, Victoria Land, Antarctica.

Name: For an amphibole with sodium and calcium dominant in the A and B sites respectively, ferric iron in the C site and O²⁻ dominant in the W site.

Type Material: Natural History Museum, University of Pisa, Italy (19689).

References: (1) Gentili, S., C. Biagioni, P. Comodi, M. Pasero, C. McCammon, and C. Bonadiman (2016) Ferri-kaersutite, NaCa₂(Mg₃TiFe³⁺)(Si₆Al₂)O₂₂O₂, a new oxo-amphibole from Harrow Peaks, Northern Victoria Land, Antarctica. *Amer. Mineral.*, 101, 461-468.