

Crystal Data: Isometric. *Point Group:* $4/m \bar{3} 2/m$. As octahedral crystals, to 1 mm.

Physical Properties: *Cleavage:* None. *Fracture:* Conchoidal. *Tenacity:* Brittle. Hardness = ~ 5 [By analogy to hydroxycalcioroméite.] $D(\text{meas.}) = \text{n.d.}$ $D(\text{calc.}) = 5.113$

Optical Properties: Translucent. *Color:* Yellow to orange. *Streak:* White. *Luster:* Vitreous to resinous.

Optical Class: Isotropic. $n(\text{calc.}) = 1.826$

Cell Data: *Space Group:* $Fd\bar{3} m$. $a = 10.2987(8)$ $Z = 8$

X-ray Powder Pattern: Starlera mine, Ferrera, Hinterrhein district, Grischun, Switzerland. 2.969 (100), 5.934 (81), 3.102 (20), 1.551 (15), 1.818 (8), 1.979 (7), 2.572 (6)

Chemistry:	(1)		(1)
Na_2O	4.11	SiO_2	0.04
CaO	15.41	TiO_2	0.01
MnO	0.54	UO_2	0.01
CuO	0.01	Sb_2O_5	76.18
ZnO	0.01	WO_3	0.78
PbO	0.02	F	2.79
Al_2O_3	0.10	H_2O	[0.59]
FeO	0.50	$\frac{-\text{O} = \text{F}_2}{\text{Total}}$	1.17
Y_2O_3	0.07		100.00

(1) Starlera mine, Ferrera, Grischun, Switzerland; average of 13 electron microprobe analyses, H_2O by difference and confirmed by Raman spectroscopy; corresponding to $(\text{Ca}_{1.16}\text{Na}_{0.56}\square_{0.22}\text{Fe}^{2+}_{0.03}\text{Mn}^{2+}_{0.03})_{\Sigma=2.00}(\text{Sb}^{5+}_{1.98}\text{Al}_{0.01}\text{W}_{0.01})_{\Sigma=2.00}\text{O}_6[\text{F}_{0.62}(\text{OH})_{0.28}\text{O}_{0.06}\square_{0.04}]_{\Sigma=1.00}$.

Mineral Group: Pyrochlore supergroup, roméite group.

Occurrence: In a structurally deformed manganese deposit most likely of synsedimentary exhalative origin.

Association: Braunit, hematite, calcite, quartz, wallkillellite-(Mn).

Distribution: From the Starlera mine, Ferrera, Hinterrhein district, Grischun, Switzerland.

Name: For a member of the *roméite* group with dominant fluorine in the Y structural site and calcium in the A structural site.

Type Material: At the Museo Regionale di Scienze Naturali, Sezione di Mineralogia, Petrografia e Geologia, Torino, Italy (M/15925). Also at the RRUFF project (R120140) and at the Geology Museum, University of São Paulo, Brazil (DR745).

References: (1) Atencio, D., M.E. Ciriotti, and M.B. Andrade (2013) Fluorcalcioroméite, $(\text{Ca},\text{Na},\square)_2\text{Sb}^{5+}_2(\text{O},\text{OH})_6\text{F}$, a new roméite-group mineral from Starlera mine, Ferrera, Grischun, Switzerland: description and crystal structure. *Mineral. Mag.*, 77(4), 467-473. (2) (2015) Amer. *Mineral.*, 100, 2357-2360 (abs. ref. 1).