

Crystal Data: Cubic. *Point Group:* $4/m\bar{3}2/m$. As rims, to 20 μm , surrounding ferrowodginite crystals, which may be almost completely replaced.

Physical Properties: *Fracture:* [Uneven] (by analogy to pyrochlore group). *Tenacity:* [Brittle.] Hardness = > 7 D(meas.) = 8.34 (synthetic Sn₂Ta₂O₇). D(calc.) = 8.21 (synthetic Sn₂Ta₂O₇).

Optical Properties: Translucent. *Color:* Yellowish brown; in reflected light, light gray with a reddish or lilac tint, with strong reddish brown internal reflections.

Optical Class: Isotropic. $n = \text{n.d.}$

Cell Data: *Space Group:* $Fd\bar{3}m$. $a = 10.57$ $Z = [8]$

X-ray Powder Pattern: Near Sukula, Finland.

3.046 (vs), 1.866 (s), 1.589 (s), 2.640 (ms), 1.524 (m), 1.2105 (m), 1.1796 (m)

Chemistry:	(1)	(2)	(3)
Nb ₂ O ₅	7.40	7.40	7.40
Ta ₂ O ₃	41.86	41.86	41.86
TiO ₂	0.99	0.99	0.99
SnO ₂	48.35		[8.49]
SnO		43.22	[35.63]
FeO	2.09	2.09	2.09
MnO	1.42	1.42	1.42
H ₂ O			[0.61]
Total	102.10	96.97	98.49

(1) Near Sukula, Finland; by electron microprobe, total Sn as SnO₂. (2) Do.; analysis (1) with total Sn as SnO. (3) Do.; analysis (1) with Sn²⁺, Sn⁴⁺ and (OH)¹⁻ calculated to fill all sites; then corresponding to (Sn²⁺_{1.69}Fe²⁺_{0.18}Mn²⁺_{0.13}) $\Sigma=2.00$ (Ta_{1.21}Sn⁴⁺_{0.36}Nb_{0.35}Ti_{0.08}) $\Sigma=2.00$ [O_{6.57}(OH)_{0.43}] $\Sigma=7.00$.

Mineral Group: Pyrochlore supergroup (general formula - $A_2B_2X_6Y$); microlite group ($B = \text{Ta}^{5+}$).

Occurrence: A very rare mineral, replacing ferrowodginite inclusions in tantalian cassiterite, in a museum specimen from a granite pegmatite.

Association: Ferrowodginite, tantalian cassiterite, bismuth.

Distribution: From near Sukula, Tammela, Finland, the exact locality now lost.

Name: For a member of the *microlite* group with prefixes to indicate dominant oxygen (*oxy*) in the *Y* site and tin (*stanno*) in the *A* site. Formerly 'stannomicrolite'.

Type Material: n.d.

References: (1) Vormaa, A. and J. Siivola (1967) Sukulaite - Ta₂Sn₂O₇ - and wodginite as inclusions in cassiterite in the granite pegmatite in Sukula, Tammela in SW Finland. *Compt. Rendus Soc. géol. Finlande* [Bull. Geol. Finland No. 229], 39, 173-187. (2) (1968) *Amer. Mineral.*, 53, 2103-2104 (abs. ref. 2). (3) Ercit, T.S., P. Černý, and J. Siivola (1987) The composition of stannomicrolite. *Neues Jahrb. Mineral., Monatsh.*, 249-252. (4) Atencio, D., M.B. Andrade, A.G. Christy, R. Gieré, and P.M. Kartashov (2010) The pyrochlore supergroup of minerals: nomenclature. *Can. Mineral.*, 48, 673-698.