

Crystal Data: Hexagonal. *Point Group:* $6/m\ 2/m\ 2/m$. As grains in clausthalite.

Physical Properties: Hardness = n.d. VHN = n.d. D(meas.) = n.d. D(calc.) = 7.06

Optical Properties: Opaque. *Color:* In polished section, yellow to orange-yellow.
Optical Class: Uniaxial. *Pleochroism:* Distinct, in shades of yellow. *Anisotropism:* Strong to distinct, in pinkish to greenish colors.

R_1 – R_2 : n.d.

Cell Data: *Space Group:* $P6_3/mmc$. $a = 3.624$ $c = 5.288$ $Z = 2$

X-ray Powder Pattern: Kuusamo, Finland.
2.70 (100), 2.015 (80), 1.806 (60), 1.535 (40), 1.50 (40), 1.348 (30), 1.155 (30)

Chemistry:	(1)	(2)
	Ni	36.8
	Co	1.9
	Se	61.3
	<hr/>	
	Total	100.0
		100.00

(1) Kuusamo, Finland; by X-ray fluorescence. (2) NiSe.

Mineral Group: Nickeline group.

Occurrence: In calcite veins, in sills of albite diabase in schist, associated with low-grade uranium mineralization.

Association: Wilkmanite, penroseite, clausthalite, calcite.

Distribution: From Kuusamo, northeastern Finland [TL].

Name: In honor of Jakob Johannes Sederholm (1863–1934), former Director of the Geological Survey of Finland.

Type Material: n.d.

References: (1) Vuorelainen, Y., A. Huhma, and A. Häkli (1964) Sederholmite, wilkmanite, kullerudite, mäkinenite, and trüstedtite, five new nickel selenide minerals. *Compt. Rendus Soc. Géol. Finlande*, 36, 113–125. (2) (1965) *Amer. Mineral.*, 50, 519–520 (abs. ref. 1).