Wilkmanite

Crystal Data: Monoclinic. Point Group: 2/m. Massive (?).


Cell Data: Space Group: I2/m. a = 6.22 b = 3.63 c = 10.52 β = 90.53° Z = 2

X-ray Powder Pattern: Kuusamo, Finland. 2.70 (100), 2.02 (100), 1.800 (100), 2.00 (80), 1.815 (80), 1.532 (60), 1.497 (60)

Chemistry: (1) (2)
Ni 33.7 35.80
Co 1.0
Cu trace
Fe trace
Se 65.3 64.20
Total 100.0 100.00

(1) Kuusamo, Finland; by electron microprobe. (2) Ni₃Se₄.

Polymorphism & Series: Dimorphous with trüstedtite.

Occurrence: A primary phase and an alteration product of sederholmite, in albite diabase sills that cut a schist formation, associated with low-grade uranium mineralization.

Association: Sederholmite, penroseite, selenium, ferroselite, selenian vaesite, cattierite, calcite.

Distribution: From Kuusamo, northeastern Finland.

Name: For W.W. Wilkman, geologist.

Type Material: n.d.