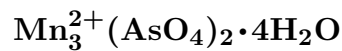


Sterlinghillite

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Crystal Data: n.d. *Point Group:* n.d. As bundles and hemispherical clusters of lathlike to platy crystals, to 0.1 mm.

Physical Properties: *Cleavage:* One, perfect, parallel to elongation. *Hardness* = 3
D(meas.) = 2.95 D(calc.) = n.d.

Optical Properties: Semitransparent. *Color:* White to light pink. *Streak:* White.
Luster: Dull to silky.
Optical Class: Biaxial. *Orientation:* Inclined extinction, wavy. $\alpha = 1.656(3)$ $\beta = \text{n.d.}$
 $\gamma = 1.671(3)$ $2V(\text{meas.}) = \text{n.d.}$

Cell Data: *Space Group:* n.d. $Z = \text{n.d.}$

X-ray Powder Pattern: Sterling Hill, New Jersey, USA.
11.12 (100), 3.209 (100), 2.751 (60), 2.880 (40), 2.848 (40), 6.39 (30), 3.692 (30)

Chemistry:	(1)	(2)
As ₂ O ₅	44.7	44.65
FeO	0.2	
MnO	39.5	41.35
ZnO	2.9	
MgO	0.1	
H ₂ O	[12.6]	14.00
Total	[100.0]	100.00

- (1) Sterling Hill, New Jersey, USA; by electron microprobe, total Mn as MnO, H₂O by difference.
(2) Mn₃(AsO₄)₂•4H₂O.

Occurrence: A very rare mineral in seams in franklinite ore from a metamorphosed stratiform zinc orebody.

Association: Franklinite, sphalerite, löllingite, calcite.

Distribution: From Sterling Hill, Ogdensburg, Sussex Co., New Jersey, USA.

Name: For the Sterling Hill mine, New Jersey, USA.

Type Material: National Museum of Natural History, Washington, D.C., USA, 147269.

References: (1) Dunn, P.J. (1981) Sterlinghillite, a new hydrated manganese arsenate mineral from Ogdensburg, New Jersey. *Amer. Mineral.*, 66, 182–184.