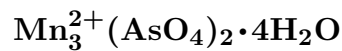


**Sterlinghillite**

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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)

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

- (1) Sterling Hill, New Jersey, USA; by electron microprobe, total Mn as MnO, H<sub>2</sub>O by difference.  
 (2) Mn<sub>3</sub>(AsO<sub>4</sub>)<sub>2</sub>•4H<sub>2</sub>O.

**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.