Falottaite MnC₂O₄·3H₂O

Crystal Data: Orthorhombic. Point Group: 2/m 2/m 2/m. As well-formed ship-like crystals to 1 mm elongated along [001] and flattened along [010] displaying {010}, {100}, and {101}. Twinning: Common by an undetermined law.


Cell Data: Space Group: Pcaa. a = 10.527(5)  b = 6.626(2)  c = 9.783(6)  Z = 4

X-ray Powder Pattern: Falotta mine, Oberhalbstein region, Canton Grisons, Switzerland. 6.630 (100), 3.801 (90), 3.153 (80), 2.622 (70), 1.726 (70), 4.635 (60), 2.959 (60), 2.122 (60)

Chemistry: Powder XRD pattern is identical to synthetic MnC₂O₄·3H₂O. (1) Falotta mine, Oberhalbstein region, Canton Grisons, Switzerland; qualitative microprobe EDS analyses show only Mn, C, and O.

Occurrence: Presumably from reaction of humus and oxalic acids (from plants) with manganese minerals in synsedimentary lenses of manganese ore in radiolaritic rocks of an ophiolithic zone.

Association: n.d.

Distribution: From the abandoned manganese mines of Falotta, Parsettens, and Tinzen, Oberhalbstein region, Canton Grisons, Switzerland.

Name: For its type locality, the Falotta mine, Switzerland.

Type Material: Natural History Museum Basel, Basel, Switzerland (S69).