Iseite

Crystal Data: Hexagonal. *Point Group: 6mm.* As poorly-formed crystals to 20 μm that form aggregates to 1 mm.


D(meas.) = n.d. D(calc.) = 5.85


Optical Class: n.d.

Cell Data: *Space Group: P6₃mc.* a = 5.8052(3) c = 10.2277(8) Z = 2

X-ray Powder Pattern: Shobu Fe-Mn deposit, near Ise City, Mie Prefecture, Japan. 2.523 (100), 3.585 (98), 2.441 (90), 5.11 (68), 1.588 (62), 2.023 (49), 1.659 (44)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MnO</td>
<td>24.14</td>
<td>26.99</td>
</tr>
<tr>
<td>FeO</td>
<td>2.63</td>
<td></td>
</tr>
<tr>
<td>MoO₂</td>
<td>73.33</td>
<td>73.01</td>
</tr>
<tr>
<td>Total</td>
<td>100.10</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Shobu Fe-Mn deposit, near Ise City, Mie Prefecture, Japan; average of 17 electron microprobe analyses; corresponding to (Mn₁₋₀.₇₉Fe₀.₁₉)Σ=₁.₉₈Mo₃.₀₁O₈. (2) Mn₂Mo₃O₈.

Occurrence: In a stratiform ferro-manganese deposit, embedded in chert and closely associated with limestone and greenstone in an accretionary complex.

Association: Rhodochrosite, powellite, molybdenite.

Distribution: From the Shobu Fe-Mn deposit, near Ise City, Mie Prefecture, Japan.

Name: For the city in Japan near which the first specimens were collected.
