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.  
\[ a = 5.8052(3) \quad c = 10.2277(8) \quad Z = 2 \]

**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 \((\text{Mn}_{1.79}\text{Fe}_{0.19})\text{Mo}_{3.01}\text{O}_8\).  
(2) \(\text{Mn}_2\text{Mo}_3\text{O}_8\).

**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.

**Type Material:** National Museum of Nature and Science, Tokyo, Japan (NSM M-43652).

**References:**  