Rambergite

Crystal Data: Hexagonal.  *Point Group*: 6mm.  As minute hemimorphic pyramidal crystals to 0.5 mm and as crusts of fine acicular crystals (Japan); granular.


Cell Data:  *Space Group*: P6\(_3\)mc.  \(a = 3.975(5)\)  \(c = 6.433(6)\)  \(Z = 2\)

X-ray Powder Pattern:  Hirogawara mine, Urayama, Chichibu City, Saitama Prefecture, Japan.  3.03 (100), 3.21 (95), 3.44 (90), 1.817 (80), 1.986 (65), 1.689 (47), 2.36 (45)

Chemistry:  

<table>
<thead>
<tr>
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<th>(1)</th>
<th>(2)</th>
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<tbody>
<tr>
<td>Mn</td>
<td>63.44</td>
<td></td>
</tr>
<tr>
<td>Fe</td>
<td></td>
<td>36.29</td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
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<tr>
<td>Total</td>
<td>99.73</td>
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</tbody>
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(1) Garpenberg Norra, Dalarna, Sweden; no analysis given; corresponds to \((\text{Mn}_{0.950}\text{Fe}_{0.030}\text{Sb}_{0.004}\text{Zn}_{0.002}\text{Ag}_{0.002})\text{S}_{1.000}\).  (2) Hirogawara mine, Urayama, Chichibu City, Saitama Prefecture, Japan.; average electron microprobe analysis, corresponds to \(\text{Mn}_{1.01}\text{S}_{0.99}\).

Polymorphism & Series:  Polymorphous with alabandite and browneite.

Mineral Group:  Sphalerite group.

Occurrence:  From tremolite skarn, likely a later stage hydrothermal mineral under low temperature conditions (Sweden).  In metasedimentary manganese deposits (Japan).  In anoxic laminated marine sediments (Gotland Deep, Baltic Sea).  Reported from Ronneburg, Thuringia, Germany.

Association:  n.d.


Name:  Honors Norwegian-Swedish geologist Hans Ramberg (1917-1998), former professor of mineralogy and petrology, Uppsala University, Sweden.

Type Material:  n.d.