Pingguite

Crystal Data: Orthorhombic. Point Group: n.d. Crystals, to 0.6 µm, columnar, in granular aggregates.

Physical Properties: Tenacity: Brittle. Hardness = 5–6 VHN = 449–572, 510 average (50 g load). D(meas.) = 8.44 D(calc.) = 8.64


Cell Data: Space Group: n.d. a = 5.689(1) b = 10.791(1) c = 5.308(1) Z = 1

X-ray Powder Pattern: Yangjiava, China. 3.146 (100), 2.841 (80), 2.694 (20), 1.695 (20), 1.956 (10), 1.631 (10), 2.651 (9)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
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</thead>
<tbody>
<tr>
<td>TeO₂</td>
<td>20.17</td>
<td>18.59</td>
</tr>
<tr>
<td>Bi₂O₃</td>
<td>79.56</td>
<td>81.41</td>
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<tr>
<td>Total</td>
<td>99.73</td>
<td>100.00</td>
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</tbody>
</table>

(1) Yangjiava, China; by electron microprobe, average of 15 analyses; corresponds to Bi₅.₈ₐTe₂.₁₅O₁₃.₀₀. (2) Bi₆Te₂O₁₃.

Occurrence: In the oxidation zone of a gold deposit.

Association: Malachite, pyromorphite, bismutite, gold, “electrum”, scheelite, quartz, calcite, “limonite”.

Distribution: From Yangjiava, Pinggu Co., Beijing Municipality, China [TL].

Name: For its occurrence in Pinggu Co., China.

Type Material: Geological Museum of China, Beijing, China.