Pyrostilpnite Ag

Crystal Data: Monoclinic. Point Group: 2/m. Crystals tabular \{010\} giving flat rhombic forms; also laths by elongation \| [001], to 1 mm; as subparallel sheaflike aggregates. Twinning: On \{100\} with (100) as composition plane.


Cell Data: Space Group: \text{P}_{2_1}/c. a = 6.84 \quad b = 15.84 \quad c = 6.24 \quad \beta = 117°09′ \quad Z = 4

X-ray Powder Pattern: Príbram, Czech Republic. 2.85 (100), 2.65 (50), 2.42 (50), 1.895 (50b), 1.887 (50b), 1.887 (50b), 1.824 (20b), 1.813 (20b)

Chemistry:

<table>
<thead>
<tr>
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<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag</td>
<td>59.44</td>
<td>59.7</td>
<td>59.76</td>
</tr>
<tr>
<td>Sb</td>
<td>22.30</td>
<td>23.7</td>
<td>22.48</td>
</tr>
<tr>
<td>S</td>
<td>18.11</td>
<td>16.8</td>
<td>17.76</td>
</tr>
</tbody>
</table>

Total 99.85 100.2 100.00

(1) St. Andreasberg, Germany. (2) Do.; by electron microprobe. (3) Ag$_3$SbS$_3$.

Polymorphism & Series: Dimorphous with pyrargyrite.

Occurrence: In low-temperature hydrothermal veins as a late-stage mineral.

Association: Pyrargyrite, stephanite, acanthite, silver, miargyrite, xanthoconite, andorite, fizelyite.

Distribution: In Germany, from St. Andreasberg, Harz Mountains [TL]. At Hiedelaencina, Guadalajara Province, Spain. In the Czech Republic, from Príbram and at Třebško. In England, at St. Teath, Cornwall. In Australia, from Broken Hill, New South Wales; and in the Long Tunnel, at Heazlewood, Tasmania. From the Kushikino mine, Kagoshima Prefecture, Japan. In the USA, in the Silver City district, Owyhee Co., Idaho; at the Bulldog mine, Creede, Mineral Co., Colorado; and from Randsburg, San Bernardino Co., California. In Canada, at Cobalt, Ontario; in the Van silver mine, near Whistler, and at the Silvana mine, Sandon, British Columbia. In Chile, from Chañarcillo, south of Copiapó, Atacama. At Cerro Rico, Potosí, Bolivia. In small amounts from other localities.

Name: From the Greek for fire and shining, in allusion to its color and luster.

Type Material: Mining Academy, Freiberg, Germany, 6200.


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