Cupromakopavonite  

**Crystal Data:** Monoclinic. *Point Group: 2/m.* As inclusions in over-substituted krupkaite (*bd*56) as homogeneous grains or in lamellar intergrowths with Cu-bearing makovickyite.

*D(meas.) =* n.d.  
*D(calc.) =* 6.85

*Luster:* Metallic.  
*Optical Class:* Birefringence: Weak. *Anisotropism:* Moderate (air) to strong (oil), dark bluish gray to yellowish brown.  
*R1-R2:* (470) 42.9-46.6, (546) 42.1-46.5, (589) 41.3-45.8, (650) 40.2-45.1

**Cell Data:**  
*Space Group:* *C2/m.*  
*a =* 13.380(2)  
*b =* 4.0007(6)  
*c =* 31.083(4)  
*β =* 93.064(2°)  
*Z =* 1

**X-Ray Diffraction Pattern:** Felbertal, Salzburg Province, Hohe Tauern, Austria.  
2.834 (100), 3.457 (99), 3.607 (57), 3.436 (37), 3.340 (34), 2.874 (33), 2.256 (29)

**Chemistry:**  
(1)  
<table>
<thead>
<tr>
<th>Element</th>
<th>Formula</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cu</td>
<td>7.29</td>
<td></td>
</tr>
<tr>
<td>Ag</td>
<td>5.48</td>
<td></td>
</tr>
<tr>
<td>Pb</td>
<td>8.84</td>
<td></td>
</tr>
<tr>
<td>Cd</td>
<td>0.39</td>
<td></td>
</tr>
<tr>
<td>Bi</td>
<td>59.90</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>17.90</td>
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</tr>
<tr>
<td>Total</td>
<td>99.80</td>
<td></td>
</tr>
</tbody>
</table>

(1) Felbertal, Salzburg Province, Hohe Tauern, Austria; average electron microprobe analysis; corresponds to Cu7.82Ag3.46Pb2.91Cd0.24Bi19.53S38.05.

**Mineral Group:** Cupropavonite homologous series with N = 4.5.

**Occurrence:** By exsolution from an originally homogeneous high-temperature phase in quartz veins in a metamorphosed hydrothermal scheelite deposit.

**Association:** Makovickyite, over-substituted krupkaite (*bd*55), hodrušite, kupčikite.

**Distribution:** From the K8 orebody, Felbertal, Salzburg Province, Hohe Tauern, Austria.

**Name:** Suffix, *cupro,* indicates dominant copper in a phase related to cupromakovickyite and cupropavonite.

**Type Material:** Reference collection, Division of Mineralogy, University of Salzburg, Austria (14955).

**References:**  