Berzelianite

Crystal Data: Cubic. Point Group: 4/m 3 2/m. As thin dendritic crusts; fine grained and disseminated as powdery inclusions.


Cell Data: Space Group: Fm3m (synthetic). a = 5.694(7) Z = 4

2.03 (100), 3.33 (90), 1.729 (80), 1.171 (40), 1.434 (30), 1.317 (20), 1.105 (20)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cu</td>
<td>57.21</td>
<td>61.62</td>
</tr>
<tr>
<td>Ag</td>
<td>3.51</td>
<td></td>
</tr>
<tr>
<td>Se</td>
<td>39.22</td>
<td>38.38</td>
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<tr>
<td>Total</td>
<td>99.94</td>
<td>100.00</td>
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</tbody>
</table>

(1) Skrikerum, Sweden. (2) Cu$_2$Se.

Polymorphism & Series: Dimorphous with bellidoite.

Occurrence: With other selenides in hydrothermal veinlets in dolostone (Clausthal, Germany); in iron ores (Lerbach, Germany); with other selenides in calcite veins in serpentine (Skrikerum, Sweden); in a gold-quartz-orthoclase deposit (Redjang-Lebong, Sumatra).

Association: Eucairite, claustralite, tiemannite, umangite, klockmannite, aguilarite, crookesite, athabascaite, stromeyerite, polybasite, pearceite, gold, uraninite, pyrite, marcasite, calcite.

Distribution: At Skrikerum, near Tryserum, Kalmar, Sweden [TL]. From Lerbach, Tilkerode, Zorge, Clausthal, and St. Andreasberg, Harz Mountains; at Niederschlema, Saxony; and the Mullenbach uranium deposit, Black Forest, Germany. In the Czech Republic, in the Habrí and Bukov mines, near Tisnova; at the Petrovice uranium deposit, near Ždár; and the Predbořice uranium deposit, near Krášna Hora. From the Kyzyalmasay gold deposit, [??where in?? or drop] Uzbekistan. In the Sierra de Umango, and at Tuminico, Sierra de Cacho, La Rioja Province, Argentina. From the Elefante prospect, near the Serra Pelada Au–Pd–Pt deposit, Pará, Brazil. At Redjang-Lebong, Sumatra. From Kalgoorlie and in the Copper Hills prospect, East Pilbara region, Western Australia, and at El Sharana, Northern Territory, Australia. In the Pinky Fault uranium deposit, Lake Athabasca, Saskatchewan, Canada. From the Durant vein, Aurora district, Mineral Co., Nevada, USA.

Name: For Jöns Jacob Berzelius (1779–1848), Swedish chemist, who discovered selenium.