Krupkaite

Crystal Data: Orthorhombic. Point Group: mm2. Typically as fibrous aggregates of parallel intergrowths with other bismuthinite–aikinite minerals.


Cell Data: Space Group: Pb21ma. a = 11.200(9) b = 11.560(9) c = 4.003(3) Z = 2

X-ray Powder Pattern: Juno mine, Australia. 3.137 (100), 2.841 (37), 3.645 (30), 3.160 (27), 2.660 (26), 1.970 (26), 3.552 (24)

Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>19.9</td>
<td>19.3</td>
<td>19.01</td>
</tr>
<tr>
<td>Cu</td>
<td>4.6</td>
<td>5.95</td>
<td>5.83</td>
</tr>
<tr>
<td>Bi</td>
<td>57.4</td>
<td>59.8</td>
<td>57.51</td>
</tr>
<tr>
<td>Se</td>
<td>0.95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>18.0</td>
<td>17.25</td>
<td>17.65</td>
</tr>
</tbody>
</table>

Total [99.9] 103.25 100.00

(1) Krupka, Czech Republic; by electron microprobe, average of three analyses; corresponds to Pb1.03Cu0.77Bi2.94S6.00. (2) Juno mine, Australia; by electron microprobe, corresponds to Pb1.02Cu1.02Bi3.12(S5.87Se0.13)2Σ=6.00. (3) PbCuBi3S6.

Occurrence: Rare in hydrothermal veins.

Association: Gladite, bismuthinite, aikinite, bismuth, cassiterite, quartz.

Distribution: In the Czech Republic, from the Barbora gallery, Krupka, Krušně hory Mountains [TL] and at Bohutín, at Dobšiná (Dobschau), Slovakia. From Ocna de Fier (Morávica; Vaskó); Baia Borşa, Baia Mare (Nagybánya); and Sasca Montană, Romania. At the Zidarovo copper deposit, Bulgaria. In Austria, in the Waschgang Au–Cu deposit, Goldberg Mountains, Upper Carinthia, and from the Felbertal tungsten mine, Salzburg. In the Loch Shin monzogranite, near Lairg, Scotland. From the Carrock mine, Caldbeck Fells, Cumbria, England. From Inkur, Transbaikal, Russia. At the Funishan copper skarn, near Nanjing, Jiangsu Province, China. From Australia, in the Juno mine, Tennant Creek, Northern Territory. At Temiskaming, Quebec, Canada. In the USA, from Cucamongo Spring, Tule Canyon district, Esmeralda Co., Nevada; in Ball’s mine, Little Cottonwood district, Salt Lake Co., Utah; and at the Alice mine, Alice district, Clear Creek Co., Colorado. At the Cordón do los Galeses, Andes Mountains, Chubut Province, Argentina.

Name: For the locality in the Czech Republic at Krupka.

Type Material: Charles University, Prague, Czech Republic, 14522.


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