**Supplemental Material**

**Table S1.** Microprobe analyses of argentotetrahedrite-(Cd). The chemical formula of the samples are recalculated on the basis of ΣMe = 16 apfu.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Attr-(Cd) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Sb | 24.14 | 24.02 | 23.77 | 24.00 | 22.07 | 23.70 | 24.58 | 22.34 | 24.58 | 25.09 | 24.79 | 24.06 | 24.60 | 24.74 |
| Ag | 18.15 | 18.25 | 18.05 | 18.49 | 21.47 | 21.21 | 19.95 | 19.90 | 18.61 | 18.60 | 18.08 | 17.75 | 17.68 | 17.49 |
| Fe | 0.24 | 0.26 | 0.18 | 0.25 | 0.84 | 0.79 | 0.70 | 1.06 | 0.63 | 1.06 | 0.56 | 1.48 | 0.77 | 1.25 |
| Se | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.19 |
| As | 0.87 | 0.98 | 0.97 | 0.75 | 0.57 | 0.76 | 0.14 | 0.57 | 0.44 | 0.49 | 0.00 | 0.75 | 0.66 | 0.73 |
| Cu | 23.40 | 23.60 | 23.04 | 23.05 | 21.75 | 22.70 | 22.35 | 22.21 | 22.97 | 22.48 | 23.76 | 23.32 | 23.20 | 22.29 |
| Mn | 0.03 | 0.03 | 0.02 | 0.04 | 0.02 | 0.01 | 0.03 | 0.06 | 0.04 | 0.02 | 0.01 | 0.04 | 0.05 | 0.03 |
| Cd | 11.03 | 10.63 | 11.15 | 11.06 | 8.83 | 9.69 | 9.84 | 9.01 | 9.08 | 8.16 | 10.08 | 10.68 | 10.77 | 9.05 |
| Pb | 0.03 | 0.00 | 0.00 | 0.13 | 0.04 | 0.07 | 0.03 | 0.05 | 0.00 | 0.00 | 0.12 | 0.08 | 0.07 | 0.07 |
| Zn | 0.15 | 0.30 | 0.15 | 0.26 | 1.04 | 0.06 | 0.37 | 0.98 | 1.05 | 0.58 | 0.76 | 0.22 | 0.20 | 0.92 |
| S | 21.83 | 21.72 | 22.09 | 21.95 | 21.51 | 21.57 | 21.23 | 21.55 | 22.28 | 21.99 | 21.97 | 21.97 | 22.07 | 22.10 |
| Ʃ (hm.%) | 99.86 | 99.79 | 99.41 | 99.97 | 98.18 | 100.55 | 99.21 | 98.19 | 99.69 | 98.46 | 100.12 | 100.35 | 100.08 | 98.86 |
| Sb | 3.72 | 3.69 | 3.71 | 3.71 | 3.45 | 3.62 | 3.82 | 3.47 | 3.80 | 3.93 | 3.80 | 3.66 | 3.79 | 3.84 |
| Ag | 3.16 | 3.17 | 3.16 | 3.23 | 3.79 | 3.66 | 3.49 | 3.49 | 3.24 | 3.29 | 3.13 | 3.04 | 3.07 | 3.07 |
| Fe | 0.08 | 0.09 | 0.06 | 0.09 | 0.29 | 0.26 | 0.24 | 0.36 | 0.21 | 0.36 | 0.19 | 0.49 | 0.26 | 0.42 |
| Se | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| As | 0.22 | 0.25 | 0.25 | 0.19 | 0.14 | 0.19 | 0.04 | 0.14 | 0.11 | 0.12 | 0.00 | 0.19 | 0.16 | 0.18 |
| Cu | 6.92 | 6.95 | 6.88 | 6.83 | 6.51 | 6.64 | 6.65 | 6.61 | 6.80 | 6.74 | 6.98 | 6.79 | 6.84 | 6.63 |
| Mn | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.02 | 0.02 | 0.01 | 0.00 | 0.01 | 0.02 | 0.01 |
| Cd | 1.84 | 1.77 | 1.88 | 1.85 | 1.49 | 1.60 | 1.65 | 1.52 | 1.52 | 1.38 | 1.67 | 1.76 | 1.80 | 1.52 |
| Pb | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 |
| Zn | 0.04 | 0.09 | 0.04 | 0.07 | 0.30 | 0.02 | 0.11 | 0.28 | 0.30 | 0.17 | 0.22 | 0.06 | 0.06 | 0.27 |
| S | 12.79 | 12.68 | 13.08 | 12.90 | 12.76 | 12.51 | 12.51 | 12.70 | 13.07 | 13.07 | 12.80 | 12.68 | 12.90 | 13.04 |