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Pb-Sb zrudnění z Antimonitové žíly, důl Rudolf, Bohutín (Česká republika)

Pb-Sb ore mineralization from the Antimonitová vein, Rudolf shaft, Bohutín (Czech Republic)

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Abstract

The Pb-Sb mineralization with dominant stibnite and plagionite and associated semseyite and zinkenite was found in an archive material collected at the Antimonitová vein, Bohutín, Březové Hory ore district (Czech Republic). Plagionite forms subhedral aggregates up to 1 mm in size. The unit-cell parameters of plagionite for monoclinic space group *C*2/*c* refined from the X-ray powder data are: *a* 13.4890(17), *b* 11.8670(14), *c* 19.997(2) Å, *β* 107.199(8)° and *V* 3057.9(6) Å^3. Its chemical composition (average of 26 analyses, based on 30 *apfu*) corresponds to the empirical formula $Pb_{5.02}Sb_{8.15}S_{16.82}$. Associated zinkenite is forming subhedral crystals up to 1 mm in size. Its empirical formula can be expressed as $(Cu_{0.25}Ag_{0.02}Fe_{0.01})_{\Sigma 0.28}Pb_{9.22}Sb_{22.19}S_{41.31}$ (average of 26 analyses, based on 73 *apfu*). Semseyite aggregates have the empirical formula $(Pb_{8.72}Fe_{0.14})_{8.86}Sb_{8.42}S_{20.73}$ (average of 11 analyses, based on 38 *apfu*).

Key words: *zinkenite, plagionite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Antimonitová vein, Rudolf shaft, Bohutín, Příbram ore district, Czech Republic*

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