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Klinochalkomenit z haldy dolu č. 11A, Příbram - Bytíz (Česká republika)

Clinochalcomenite from the mine dump of shaft No. 11A, Příbram - Bytíz (Czech Republic)

Jiří Sejkora[1)]*, Jakub Kristek[2)] a Pavel Škácha[1)3)]

[1)]Mineralogicko-petrologické oddělení, Národní muzeum, Cirkusová 1740, 193 00 Praha 9 - Horní Počernice;
**e-mail: jiri.sejkora@nm.cz*
[2)]Dobratická 524, 199 00 Praha 9
[3)]Hornické muzeum Příbram, nám. Hynka Kličky 293, 261 01 Příbram VI

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Abstract

Very rare hydrated copper selenite, mineral clinochalcomenite, was found in samples from the mine dump material of the shaft No. 11A Příbram-Bytíz, the Příbram uranium and base metal ore district, central Bohemia, Czech Republic. Clinochalcomenite occurs as green to bluish green spherical crystalline aggregates up to 1 mm in size. Associated minerals are brochantite, aurichalcite, devilline, schoepite, piretite and probably new copper uranyl selenite. Clinochalcomenite is monoclinic, space group $P2_1/n$, the unit-cell parameters refined from X-ray powder diffraction data are: *a* 8.155(3), *b* 8.595(2), *c* 6.272(2) Å, β 97.27(3)° and *V* 436.1(2) Å^3. Its chemical analyses correspond to the empirical formula $Cu_{0.96}(SeO_3)_{1.00}\cdot 2H_2O$ on the basis of Se+S = 1 *apfu*. Raman spectroscopy documents the presence of molecular water and selenite groups in the crystal structure of clinochalcomenite. The origin of clinochalcomenite is interpreted as product of (sub)recent supergene alteration of primary Cu selenides in calcite gangue in environment of mine dump material.

Key words: *clinochalcomenite, supergene mineralization, X-ray powder data, unit-cell parameters, chemical composition, Raman spectroscopy, Příbram uranium and base metal ore district, Czech Republic*

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