Výskyt vzácného seleničitanu, munakataitu, na haldě dolu Lill v Příbrami (Česká republika)

The occurrence of rare selenate, munakataite, at mine dump of the Lill mine, Příbram (Czech Republic)

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Abstract

The rare Pb-Cu selenate/sulphate, munakataite, was found at mine dump of the mine Lill, the Černojamské ore deposit, Příbram, central Bohemia (Czech Republic). Munakataite forms thin (1 - 3 μm) acicular crystals up to 400 μm in length forming hemispherical aggregates up to 1 mm in size on quartz gangue with brown sphalerite. Munakataite is brittle and its aggregates have staring sky-blue colour. The Fe- and Mn-oxides, tiny gypsum crystals and aggregates of Ca-rich pyromorphite were found in the close association. Chemical analyses of munakataite yielded average composition CaO 0.07 (0.00 - 0.11), PbO 52.52 (49.50 - 53.90), CuO 21.38 (20.47 - 22.25), ZnO 0.13 (0.00 - 0.23), SeO_2 9.89 (8.24 - 10.77), P_2O_5 0.07 (0.00 - 0.17), SO_3 12.12 (11.27 - 13.11), $H_2O_{calc.}$ 4.77, total 100.95 wt. %, corresponding to empirical formula $(Pb_{1.89}Ca_{0.01})_{\Sigma 1.90}(Cu_{2.15}Zn_{0.01})_{\Sigma 2.16}[(SO_4)_{1.21}(Se^{4+}O_3)_{0.71}(PO_4)_{0.01}]_{\Sigma 1.93}(OH)_{4.25}$ on the basis 6 *apfu*. The find of munakataite at mine dump of the Lill mine is the first occurrence of this rare mineral phase in the Czech Republic and also the first indicia of selenium mineralization in the Březové Hory ore district.

Key words: *munakataite, selenate, chemical composition, Lill mine, Příbram, Czech Republic*