

Výskyt parkeritu v uranovém rudním revíru Horní Slavkov (Česká republika)

The occurrence of parkerite at the uranium ore district Horní Slavkov (Czech Republic)

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Abstract

The rare nickel and bismuth sulphide, parkerite, has been found at mine dump of mine No. 11, the uranium ore district Horní Slavkov, Slavkovský les Mountains (Czech Republic). It forms irregular aggregates up to 100 µm in association with bismuthinite intensive replaced older aggregates of native bismuth. Chemical analyses of parkerite yielded the average composition Ag 0.04, Cd 0.11, Ni 27.03, Bi 62.18, As 0.01, S 9.83, total 99.19 wt. %, corresponding to $(\text{Ni}_{3.02}\text{Cd}_{0.01})_{\Sigma 3.03}\text{Bi}_{1.95}\text{S}_{2.01}$ on the basis of 7 apfu. The origin of parkerite is assumed as product of interaction of late hydrothermal solutions (containing S and Ni) with older solid aggregates of native bismuth.

Key words: parkerite, native bismuth, bismuthinite, chemical composition, electron microprobe, uranium ore district Horní Slavkov, Czech Republic