

# Saléeit z uranového rudního revíru Jáchymov (Česká republika)

## Saléeite from the uranium uranium ore district Jáchymov (Czech Republic)

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### Abstract

A hydrated magnesium uranyl phosphate, mineral saléeite, was found in the dump material of the western part of the Rovnost uranium deposit, the Jáchymov ore district, Krušné hory Mountains, Czech Republic. Saléeite occurs as tiny (up to 0.5 mm) yellow tabular crystals formed small groups and radial aggregates in cavities of ore gangue or yellow irregular aggregates and coatings up to 5 mm in gangue fractures. Metatorbernite, brochantite and mineral of the phosphuranylite - dewindtite serie were found in association. Saléeite is monoclinic, space group  $P2_1/c$ , the unit-cell parameters refined from X-ray powder diffraction data are:  $a$  7.018(7),  $b$  19.961(4),  $c$  9.968(7),  $\beta$  135.27(3) and  $V$  983(2) Å<sup>3</sup>. Chemical analyses correspond to empirical formula  $(\text{Mg}_{0.61}\text{Ca}_{0.21}\text{Fe}_{0.11}\text{Cu}_{0.09}\text{Pb}_{0.02}\text{Zn}_{0.02})_{\Sigma 1.06}(\text{UO}_2)_{2.01}[(\text{PO}_4)_{1.51}(\text{AsO}_4)_{0.46}(\text{SiO}_4)_{0.03}]_{\Sigma 2.00} \cdot 10\text{H}_2\text{O}$  on the basis  $(\text{P}+\text{As}+\text{Si}) = 2$  apfu. Saléeite originated there by weathering of primary uranium minerals in the conditions of supergene zone *in-situ*.

**Key words:** saléeite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Jáchymov ore district, Czech Republic