Výskyt schröckingeritu na fluoritovém ložisku Vrchoslav v Krušných horách (Česká republika)

The occurrence of schröckingerite at the Vrchoslav fluorite deposit in the Krušné hory Mountains (Czech Republic)

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Abstract

Schröckingerite was found in the abandoned 5. květen adit of the Vrchoslav hydrothermal fluorite deposit, the Krušné hory Mountains, northern Bohemia, Czech Republic. It forms green-yellow globular to irregular crystalline aggregates with pearly luster up to 3 mm in diameter on the fragments of rocks and walls of adit. Schröckingerite aggregates are formed by small thin tabular crystals up to 0.07 mm with obviously parallel orientation. Rarely in association with schröckingerite there also were bright orange powdery aggregates of natrozippeite observed. The unit-cell parameters of schröckingerite refined from powder X-ray data are: a = 9.6279(9) Å, b = 9.6303(9) Å, c = 14.3868(11) Å, $a = 91.360(9)^\circ$, $a = 92.292(10)^\circ$, $a = 120.191(6)^\circ$ and a = 1150.59(6) ų. In the infrared spectrum of schröckingerite, the bands of $a = 11.360(9)^\circ$, $a = 11.360(9)^\circ$, a = 11.

Key words: schröckingerite, uranyl, X-ray powder data, IR absorption spectra, Vrchoslav fluorite deposit, Czech Republic