

## Nové mineralogické nálezy na Sn-W ložisku Cínovec v Krušných horách (Česká republika)

### New mineralogical finds at the Sn-W deposit Cínovec, the Krušné hory Mountains, Czech Republic

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#### Abstract

Rare supergene minerals of the crandallite-group (florencite-(Ce), goyazite, crandallite), thometzekite and walpurgite were found at the material from abandoned Sn-W deposit Cínovec, the Krušné hory Mountains, northern Bohemia, Czech Republic. Crandallite-group minerals form strongly zoned orange to crystals up to 400  $\mu\text{m}$  in cavities of quartz - cassiterite - wolframite gangue. Scheelite, clay minerals and mixite were observed in association. Thometzekite forms yellow or yellow green aggregates up to 2 mm on cavities of quartz gangue in association with segnitite, fluorite, opal and mixite. Thometzekite is monoclinic, space group  $C2/m$ , the unit-cell parameters refined from X-ray powder data are:  $a$  9.141(12),  $b$  6.361(5),  $c$  7.646(8) Å,  $\beta$  116.92(6) ° and  $V$  396(1) Å<sup>3</sup>. Walpurgite was found as groups of well-formed lath-like light yellow crystals up to 2 mm in the length in cavity of quartz gangue. It is triclinic, space group  $P-1$ , the unit-cell parameters refined from X-ray powder data are:  $a$  7.138(3),  $b$  10.430(6),  $c$  5.495(5) Å,  $\alpha$  101.51(5),  $\beta$  110.97(4),  $\gamma$  88.15(4)° and  $V$  373.9(6) Å<sup>3</sup>. The quantitative chemical data for all described mineral phases are given.

**Key words:** florencite-(Ce), crandallite-group minerals, thometzekite, walpurgite, mineralogical data, Sn-W deposit, Cínovec, the Krušné hory Mountains, northern Bohemia, Czech Republic