PŮVODNÍ PRÁCE/ORIGINAL PAPER

Fosfosiderit ze Zdechovic a Chvaletic u Přelouče v Železných horách (Česká republika)

Phosphosiderite from Zdechovice and Chvaletice near Přelouč, Železné hory Mts. (Czech Republic)

Petr Pauliš[1,2)]*, Viktor Venclík[3)], Radana Malíková[2)], Ondřej Pour[4)] a Jiří Sejkora[2)]

[1)]*Smíškova 564, 284 01 Kutná Hora; *e-mail: petr.paulis@post.cz*
[2)]*Mineralogicko-petrologické oddělení, Národní muzeum, Cirkusová 1740, 193 00 Praha 9 - Horní Počernice*
[3)]*Na drážce 1501, 530 03 Pardubice*
[4)]*Česká geologická služba, Geologická 6, 152 00 Praha 5*

Pauliš P., Venclík V., Malíková R., Pour O., Sejkora J. (2015) Fosfosiderit ze Zdechovic a Chvaletic u Přelouče v Železných horách (Česká republika). *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha) 23, 2, 208-213. ISSN 1211-0329.*

Abstract

Phosphosiderite was found at mine dumps material of the abandoned Fe-Mn occurrence Zdechovice (19 km E from Kolín, Czech Republic). It forms there whitish, greyish white and mauve coatings and crusts with area more than 10 cm^2 on weathered slate rocks. Phosphosiderite is monoclinic, space group $P2_1/n$, the unit-cell parameters refined from X-ray powder diffraction data are: *a* 5.330(3), *b* 9.807(7), *c* 8.706(4) Å, *β* 90.60(5)° and *V* 455.1(5) $Å^3$; its chemical composition is close to ideal formula $Fe^{3+}PO_4 \cdot 2H_2O$. White crystals and aggregates of gypsum, yelow-brown nodules of destinezite (triclinic, space group *P*-1, unit-cell parameters: *a* 9.562(8), *b* 9.715(6), *c* 7.319(5) Å, α 98.75(5), β 107.91(5), γ 63.87(5)° and *V* 580.8(8) $Å^3$) and white to greyish white aggregates od fluorapatite (hexagonal, space group $P\ 6_3/m$, unit-cell parameters: *a* 9.417(7), *c* 6.8761(3) Å and *V* 528.1(4) $Å^3$) were observed in association. Similar occurrence of phosphosiderite (monoclinic, space group $P2_1/n$, the unit-cell parameters: *a* 5.334(4), *b* 9.817(6), *c* 8.700(4) Å, *β* 90.60(3)° and *V* 455.7(5) $Å^3$) was confirmed at historical sample from nearby Chvaletice deposit near Přelouč.

Key words: *phosphosiderite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Zdechovice, Chvaletice, Železné hory Mts., Czech Republic*

Obdrženo: 2. 9. 2015; přijato 23. 11. 2015