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Vzácný allanpringit - produkt alterace fluorwavellitu z lomu Milina u Zaječova (Česká republika)

Rare allanpringite - alteration product of fluorwavellite from Milina quarry near Zaječov (Czech Republic)

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Abstract

A very rare phosphate allanpringite was found in the abandoned quarry Milina near Zaječov, Czech Republic in Ordovician sediments of the Barrandian area. Allanpringite forms yellow powder and earthy aggregates. In a more detailed study using SEM microscope, allanpringite forms rod-shaped and tabular crystals. Its origin is associated with alteration of fluorwavellite. Empirical formula of the allanprigite is $(Fe_{2.70}Al_{0.24})_{\Sigma 2.94}(PO_4)_{2.00}(OH)_{2.83}\cdot 5H_2O$ and refined unit-cell parameters are *a* 9.774(5), *b* 7.361(3), *c* 17.826(8) Å, *β* 92.2(6)° and *V* 1281.5(9) Å^3. Allanpringite was found in association with jarosite, variscite and partly altered fluorwavellite.

Key words: *allanpringite, fluorwavellite, jarosite, phosphate occurrence, chemical composition, powder X-ray diffraction data, unit-cell parameters, Ordovician sediments, Milina, Czech Republic*

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