

PŮVODNÍ PRÁCE/ORIGINAL PAPER

Offretit z kamenolomu Vrbička u Valče v Doupovských horách (Česká republika)

Offretite from the quarry Vrbička near Valeč in Doupovské hory Mountains
(Czech Republic)

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Abstract

An interesting zeolite mineralization with relatively rare zeolite offretite has been found in the abandoned basalt quarry Vrbička near the Valeč village in the Doupovské Hory Mountains (Czech Republic). Two tephrite lava extrusive sheets about 5 - 10 m thick were mined there in the past. Offretite forms some morphologically various shapes there: snow-white spherical radial aggregates (up to 0.5 mm in size); clusters of hexagonal prism crystals terminated by basal pinacoid; yellow to brownish reniform coatings and groups of hemispherical aggregates (up to 3 mm in size) with a radial inner structure. The unit-cell parameters for offretite are: $a = 13.261(7)$, $c = 7.559(1)$ and $V = 1151.5(1) \text{ \AA}^3$. Chabasite-Ca, phillipsite-K, Ba-rich phillipsite and calcite were found in association with offretite.

Key words: offretite, phillipsite-K, Ba-rich phillipsite, chabasite-Ca, X-ray powder diffraction, chemical composition, Vrbička near Valeč, Doupovské hory Mts., Czech Republic

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