

Stilbit-Ca z amfibolitového kamenolomu Markovice u Čáslavi (Česká republika)

Stilbite-Ca from amphibolite quarry Markovice near Čáslav (Czech Republic)

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Abstract

Stilbite-Ca was found in the active Markovice amphibolite quarry near Čáslav (Czech Republic). It crystallizes there as white, yellowish to reddish vitreous aggregates with columnar crystal shape, about 1 mm in the size. The crystals grow in the prehnite pocket which has about 5 cm in diameter. Stilbite-Ca from the Markovice quarry has exceptional contents of BaO (2 wt. %), which has not been published for minerals of stilbite series. The samples were studied by the PXRD and EDX analysis. The unit-cell parameters refined from X-ray powder data are: $a = 13.622(9)$, $b = 18.229(8)$, $c = 11.269(7)$ Å, $\beta = 127.94(2)$, $V = 2207(2)$ Å³.

Key words: stilbite-Ca, X-ray powder diffraction, chemical composition, Markovice quarry, Czech Republic