

Hausmannit a manganosit z mangánového ložiska Čučma-Čierna baňa (Slovenská republika)

Hausmannite and manganosite from the Čučma-Čierna baňa manganese deposit
(Slovak Republic)

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Abstract

Hausmannite and manganosite were identified at the Čierna baňa manganese deposit near Čučma, Slovenské rudohorie Mts., Gemeric Superunit, Slovak Republic. Hausmannite occurs as black, fine-grained masses up to 10 cm in size. It contains aggregates of manganosite and microscopic barite, rhodonite, rhodochrosite and spessartine inclusions. The refined unit-cell parameters of hausmannite from the powder X-ray diffraction data (for the tetragonal space group $I4_1/amd$) are $a = 5.786(11)$, $c = 9.411(2)$ Å with $V = 315.1(6)$ Å³. Manganosite forms anhedral, emerald to dark green grains and aggregates up to 2 mm in size embedded in hausmannite matrix. It is first documented occurrence of this species in Slovakia. The refined unit-cell parameters of manganosite from the powder X-ray diffraction data (for the cubic space group $Fm\bar{3}m$) are $a = 4.445(1)$ Å with $V = 87.801(2)$ Å³. Its chemical composition is close to the end member with the empirical formula (average of 6 point analyses) corresponding to $(Mn_{0.99}Mg_{0.01})_{\Sigma 1.00}O_{1.00}$ on the basis of O = 1.

Key words: hausmannite, manganosite, manganese oxides, X-ray powder data, chemical composition, Čučma, Gemeric Superunit, Slovak Republic

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