PŮVODNÍ PRÁCE/ORIGINAL PAPER

Witherit z antimonitového ložiska Dúbrava (Slovenská republika)

Witherite from the Dúbrava antimony deposit (Slovak Republic)

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Abstract

Witherite, ideally $BaCO_3$, was identified at the Dúbrava antimony deposit, Nízke Tatry Mts., Slovak Republic. It forms irregular coarse grained white to very pale yellow aggregates up to 2.5 x 1 cm in size with vitreous to greasy lustre, which fills drusy cavities in quartz. It is closely associated together with yellow aggregates and tabular crystals of barite, crystalline Fe-rich dolomite and strontianite. Witherite was also observed as an irregular microscopic inclusions in barite. The refined unit-cell parameters of witherite from Dúbrava antimony deposit are: a = 5.3001(9) Å, b = 8.8751(14) Å, c = 6.4150(10) Å and V = 301.76(8) Å^3. Quantitative chemical analyses of witherite correspond to the empirical formula $(Ba_{0.96}Sr_{0.04})_{\Sigma 1.00}CO_3$. The origin of witherite is hydrothermal; it was formed together with barite and strontianite as an product of late low-thermal fluids.

Key words: *witherite, strontianite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Dúbrava antimony deposit, Slovak Republic*

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