

Výskyt cuprostibitu v příbramském uran-polymetalickém revíru (šachta 16, Příbram - Háje), Česká republika

The occurrence of cuprostibite in the Příbram uranium-base metals ore district (the shaft 16, Příbram - Háje), Czech Republic

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Abstract

Rare intermetallic mineral cuprostibite was found in a mine dump of shaft No. 16 (Háje near Příbram), the Příbram uranium - base metal ore district, central Bohemia (Czech Republic). Cuprostibite forms there irregular to spherical aggregates up to 0.5 mm in size with metallic lustre in calcite gangue. Its chemical composition, Ag 0.10, Tl 0.01, Zn 0.04, Cu 51.00, Sb 48.90, As 0.15, Se 0.03, S 0.03, total 100.26 wt. %, with empirical formula $\text{Cu}_{1.99}\text{Sb}_{1.00}$ is close to ideal formula of cuprostibite. The unit-cell parameters, $a = 3.9968(9)$, $c = 6.098(2)$ Å and $V = 97.41(5)$ Å³, were refined from its X-ray powder diffraction pattern. Clausthalite with variable copper contents, chalcocite, tetrahedrite, silver and supergene partzite were determined in close association with cuprostibite and data for their chemical composition are given.

Key words: cuprostibite, clausthalite, silver, chalcocite, tetrahedrite, partzite, X-ray powder diffraction, chemistry, Háje near Příbram, Czech Republic