

Klebersbergit $\text{Sb}_4\text{O}_4(\text{OH})_2\text{SO}_4$ z Au-Ag ložiska Kremnica, Slovenská republika

Klebersbergite $\text{Sb}_4\text{O}_4(\text{OH})_2\text{SO}_4$ from the Kremnica Au-Ag deposit, Slovak Republic

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Abstract

Rare supergene antimony sulphate klebersbergite was found in the abandoned mine adit at 1st vein system of the Kremnica epithermal Au-Ag deposit, Slovak Republic. It forms yellow or white radial and spherical aggregates up to 3 mm, which are consisted of tabular and acicular crystals. Aggregates of klebersbergite form crusts on the weathered stibnite. The unit-cell parameters of klebersbergite are $a = 5.7596$ (6), $b = 11.2678$ (11), $c = 14.8576$ (9) Å and $V = 964.24$ (12) Å³. Klebersbergite consists of major elements Sb, S and O exclusively as shown by qualitative chemical analysis. Klebersbergite is a product of (sub)recent weathering of stibnite in acid environment of the mine adit.

Key words: klebersbergite, X-ray powder data, Kremnica, Slovak Republic