

Uranofán zo Seliec pri Banskej Bystrici (Starohorské vrchy, Slovenská republika)

Uranophane from Selce at Banská Bystrica (Starohorské vrchy Mts., Slovak Republic)

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Abstract

Uranophane was identified in Permian arkoses containing uranium mineralization at the Selce village (Banská Bystrica district), Starohorské vrchy Mts. It forms globular aggregates (up to 0.15 mm in size), consist of fibrous, needle like crystals resp. cryptocrystalline coatings and crusts on rocks fissures, also it fills rock cavities. Uranophane has a light to dark yellow colour, with yellow - green luminiscence in UV light. It is associated with boltwoodite (?), malachite and hydrated Mn oxides. Uranophane was identified by powder X-ray diffraction data and it has refined unit cell parameters: a 15.908(1), b 7.030(1), c 6.669(1) Å, β 97.54(2)° and V 739.5(1) Å³. The results of infrared spectroscopic study of uranophane and assignment of spectra are given in the paper.

Key words: oxidation zone, uranyl mineral, uranophane, uranium mineralization, Veporicum Unit, Starohorské vrchy Mts., Selce, Slovak Republic

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