

Chemické složení zlata, wolframitu a scheelitu z rozsypů lokality Trucbaba - Valcha u Humpolce

Chemical composition of gold, wolframite and scheelite from locality Trucbaba - Valcha near Humpolec

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Abstract

Chemical analyses of gold, wolframite and scheelite from stream sediments from locality Trucbaba - Valcha near Humpolec, Czech Republic, are presented. Three gold grains were analyzed and revealed as very pure gold with 85 - 99 % Au. Unusual porous structures of gold grains, inclusions of native bismuth and sporadic veinlets of electrum are characteristic for the locality. Common wolframite (80 - 87 % ferberite) with higher content both $MgWO_4$ (7 - 10 %) and $MnWO_4$ components (4 - 9 %) on this locality as a new mineral is described. In comparison with wolframites from other localities in Moldanubicum surroundings has wolframite studied high Mg/Mn ratio. Scheelite composition is very poor in Mo. Also monazite, xenotime, magnetite, ilmenite, zircon, apatite, garnet and rutile further were identified among heavy minerals.

Keywords: gold, wolframite, scheelite, chemical composition, heavy minerals, historical panning, Trucbaba - Valcha, the Humpolec gold-bearing zone, Czech-Moravian Highland