

This work is focused on study of fluid inclusions in quartz and carbonate gangue of selected Ag-Pb-Zn vein type deposits of the Blanice graben. Samples from localities Ratibořské Hory, Hradové Strmelice and Zvěstov were studied. Geology and mineralogy of the localities mentioned above were described. Optic microthermometry, which allows to determine concentration of salts in enclosed solutions and to identify possible temperatures of fluid inclusion formation, was the main method used during the studies.

The results of microthermometrical measurements of the samples showed, that salinity of fluid inclusions ranges from 1,4 to 11 wt. % eq. NaCl. Paragenetically first stages of mineralization formed from fluids of higher salinity (6 – 11 wt. % eq. NaCl), later stages formed from fluids of low salinity. Only aqueous fluids were detected, which can be approximated by H<sub>2</sub>O-NaCl, ±MgCl<sub>2</sub>, and ±FeCl<sub>2</sub> systems. Temperatures of homogenization of primary inclusions range mostly from 150 to 200 °C. Actual temperatures of mineralization can be higher, but probably not more than by 50 °C.