

## Fluidní inkluze v žilných mineralizacích z lomu Zámčisko (Hrubý Jeseník)

Fluid inclusions in vein mineralizations from the quarry Zámčisko (Hrubý Jeseník Mts.)

LUCIE STEINEROVÁ\* A ZDENĚK DOLNÍČEK

Katedra geologie Přírodovědecké fakulty Univerzity Palackého, 17. listopadu 12, 771 46 Olomouc;

\*e-mail: luciwe@seznam.cz

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### Abstract

Fluid inclusions were studied in quartz-calcite-barite vein, "Alpine-type" vein, and metamorphic intrafolial quartz vein from the Desná gneisses in the quarry Zámčisko. Based on the measured microthermometric parameters the following fluid systems were distinguished: low-salinity  $H_2O-CO_2$ -salt fluids, low-salinity to medium-salinity  $H_2O-NaCl$ , and  $H_2O-NaCl-CaCl_2$  fluids. The  $H_2O-CO_2$ -salt fluids were found only in primary fluid inclusions from the sample of gneiss-hosted quartz intrafolial vein and their trapping P-T conditions were estimated at 300 - 400 °C and 1.8 - 2.4 kbar; the fluids were probably generated during the retrograde phase of the Variscan metamorphism. The  $H_2O-NaCl$  fluids were observed in all studied samples and were generated during the late stage of the Variscan metamorphism. The  $H_2O-NaCl-CaCl_2$  fluids occurring only in primary fluid inclusions in barite from the quartz-calcite-barite vein are probably pre-Variscan in age and their origin may be associated with sedimentary brines.

**Key words:** Silesicum, Desná unit, Zámčisko, vein barite mineralization, "Alpine-type" vein, fluid inclusions, microthermometry, P-T conditions

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