

Chemická variabilita granitu typu Černá kočka čistického masivu

Chemical variability of the Černá kočka granite type of the Čistá Massif (W-Bohemia)

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FEDIUK F., FRANČE J. (2011): Chemická variabilita granitu typu Černá kočka čistického masivu. - *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha)* **19/1**, 42-46. ISSN: 1211-0329.

Abstract

The Černá kočka muscovite alkali feldspar granite, occurring on the SE border of the Čistá granitoid massif, has been hitherto chemically characterized by a single analysis only. The present contribution, using 46 new unpublished chemical analyses from a technological report, offers in a series of diagrams a comprehensive petrochemical characteristic of this rather exceptional rock and compares it with the previous published analysis. The Černá kočka granite differs markedly from the main granitoid types of the Čistá-Jesenice Pluton (the Tis granite, Petrohrad granodiorite, Čistá central and Čistá peripheral granodiorite) by its specific geochemistry (namely high-K character, higher SiO₂ and alkalis and extremely low TiO₂, Fe₂O₃^{tot}, MgO and CaO contents), by its mineralogy (especially by the absence of biotite and the presence of albite and ± tourmaline) and by its autonomous geological setting and by the supposed younger age of the emplacement.

Key words: petrography, chemistry, Čistá Massif, Černá kočka granite, Bohemicum, Bohemian Massif