PŮVODNÍ PRÁCE/ORIGINAL PAPER

Zonálne amfiboly v kontaktnej zóne mramorov a metabazitov na lokalite Trohanka pri Prakovciach (Volovské vrchy, Slovenská republika)

Zonal amphiboles in a contact zone of marbles and metabasites in the locality Trohanka near Prakovce (Volovské vrchy Mts., Slovak Republic)

Peter Ružička[1)]*, Tomáš Mikuš[2)], Martin Števko[3)] a Peter Bačík[1)]

*[1)]Katedra mineralógie a petrológie, Prírodovedecká fakulta, Univerzita Komenského v Bratislave, Ilkovičova 6, Mlynská dolina, 842 15 Bratislava, Slovenská republika; *e-mail: ruzicka@fns.uniba.sk*
[2)]Ústav vied o Zemi Slovenskej akadémie vied, Ďumbierska 1, 974 11 Banská Bystrica, Slovenská republika
[3)]Pribišova 15, 841 05 Bratislava, Slovenská republika

Ružička P, Mikuš T, Števko M, Bačík P (2017) Zonálne amfiboly v kontaktnej zóne mramorov a metabazitov na lokalite Trohanka pri Prakovciach (Volovské vrchy, Slovenská republika). Bull Mineral Petrolog 25(1): 12-22 ISSN 2570-7337

Abstract

The chemical zonality of amphiboles in contact zone of marbles and metabasites in the locality Trohanka near Prakovce (Slovakia) was identified. Observed locality belongs to the Gelnica Group of Early Paleozoic of Gemericum (Late Silurian - Devonian). The zonality reflects chemical composition of core and rim parts of amphibole crystals. In the sample PRAK-1 were identified four types of amphibole zonality: 1. core as ferro-actinolite (X_{Mg} 0.44-0.54; Si 7.67-7.74 *apfu*), rim as lean iron actinolite (X_{Mg} 0.65; Si 7.79-7.84 *apfu*); 2. core as highly Mg-actinolite/tremolite (X_{Mg} 0.89-0.90; Si 7.99-8.00 *apfu*), rim as actinolite with lower content of Mg (X_{Mg} 0.68-0.73; Si 7.70-7.93 *apfu*); 3. core as highly Mg-actinolite/tremolite (X_{Mg} 0.82; Si 7.96 *apfu*), rim as ferro-actinolite (X_{Mg} 0.40-0.42; Si 7.52-7.62 *apfu*); 4. core as ferro-actinolite to ferro-hornblende (X_{Mg} 0.36-0.37; Si 7.39-7.52 *apfu*), rim as magnesio-hornblende (X_{Mg} 0.59-0.60; Si 7.39-7.45 *apfu*). Amphiboles in other samples do not pose such variability of zonality. Variability of chemical zonality of amphiboles reflects evolution of skarn mineralisation within the formation of thermal zones during contact metamorphism.

Key words: *compositional zonig, amphiboles, marbles, Trohanka, Prakovce, Slovak Republic*
Obdrženo: 14. 3. 2017; přijato 20. 4. 2017