PŮVODNÍ PRÁCE/ORIGINAL PAPER

Metamorfný vývoj dolomitického mramoru z gréckeho ostrova Thassos

Metamorphic evolution of dolomitic marble from Thassos Island in Greece

Peter Ružička[*1)], Martin Michálek[1)] a Stanislava Milovská[2)]

*[1)]Katedra mineralógie a petrológie, Prírodovedecká fakulta, Univerzita Komenského v Bratislave, Mlynská dolina G, 842 15 Bratislava; *e-mail: ruzicka@fns.uniba.sk*
[2)]Geologický ústav Slovenskej akadémie vied, Ďumbierska 1, 974 11 Banská Bystrica

Ružička P., Michálek M., Milovská S. (2013) Metamorphic evolution of dolomitic marble from Thassos Island in Greece. *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha) 21, 1, 15-28. ISSN 1211-0329.*

Abstract

Dolomitic marble from the Thassos Island in Greece consists of the Dol ± Cal + Tr ± Tlc + Srp retrograde mineral assemblage. The retrograde phase of metamorphism of the studied marble took place under the amphibolite facies conditions. The average calculated temperature of recrystalization of calcite reached 496 ± 9°C, calculated according to the first calibration. Using the second calibration, the temperature range was estimated at 517 - 529 °C for a given pressure interval 300 - 350 MPa. The temperature 464 ± 27°C at a pressure of 350 ± 1 MPa was calculated from the retrograde univariant reactions intercept using THERMOCALC ver. 3.33.

Key words: *geothermometry, tremolite, talc, dolomitic marble, Thassos, Greece*

Obdrženo: 2. května 2013; přijato: 12. června 2013