

Alterace petalitu z pegmatitu v Nové Vsi u Českého Krumlova (Česká republika)

Alteration of petalite from pegmatite in Nová Ves near Český Krumlov (Czech Republic)

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ZIKÉŠ J. (2013) Alterace petalitu z pegmatitu v Nové Vsi u Českého Krumlova (Česká republika). *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha)* 21, 1, 84-88. ISSN 1211-0329.

Abstract

The study of alteration products of petalite ($\text{LiAlSi}_4\text{O}_{10}$) from granitic pegmatite in Nová Ves near Český Krumlov (Czech Republic) shows that petalite disintegrates into fine-grained aggregate of spodumene ($\text{LiAlSi}_2\text{O}_6$) + quartz (SiO_2) following the equation $\text{Pet} \rightarrow \text{Spd} + 2\text{Qtz}$. Apart from spodumene and quartz no other products of the alteration have been found except for small inclusions of petalite mostly in quartz. They could be a relic of the primary petalite or a newly formed petalite II. The mineral assemblage and textural relation establish a pressure-temperature path for the crystallization of the Nová Ves petalite, and estimated pressure of the pegmatite crystallization is approximately 2 - 2.5 kbar, which corresponds with the depth of about 6 - 7 km. The suggested pressure-temperature path for crystallization was compared with data published for the pegmatites: Tanco, SE Manitoba, Harding, New Mexico, Bikita, Zimbabwe, and Covas de Barroso, Portugal.

Key words: lithium-bearing pegmatite, petalite, spodumene, alteration, Nová Ves near Český Krumlov, Czech Republic

Obdrženo: 29. května 2013; přijato: 21. června 2013