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Minerálne zloženie metapelitovej a metapyroklastickej zložky kryštalických vápencov z lokalít Lubeník a Ochtiná (Slovenská republika)

Mineral composition of metapelite and metapyroclastic components of crystalline limestones from the localities Lubeník and Ochtiná (Slovak Republic)

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Abstract

Crystalline limestones from the localities Lubeník and Ochtiná (Slovak Republic) have been formed by recrystallization of limestones enriched by basaltic tuffogenic material and a minor pelitic component. The regional metamorphism and tectonic activity associated with Alpine orogennesis resulted in origin of various color and textural varieties of crystalline limestones. The recrystallized tuffogene-pelitic material was transformed into the laminar arrangement in crystalline limestones. The original clay-like pelitic component has probably been entirely recrystallized into muscovite. Higher contents of Fe (0.286 - 0.302 *apfu*) and Mg (0.342 - 0.396 *apfu*) are present in muscovites from Lubeník compared to those from Ochtiná. Recrystallized tuffogenic material is represented by epidote, titanite, magnetite and fluorapatite inclusions in muscovites. Quartz and albite form part of a calcite matrix in the crystalline limestones.

Key words: *mineral composition, crystalline limestone, Lubeník, Ochtiná, Slovak Republic*

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