

Mineralogická charakteristika mramorov asociovaných s bazaltovými metapyroklastikami a chloritickými bridlicami z lokality Markuška (Slovenská republika)

Mineralogical characteristics of marbles associated with basalt metapyroclastics and chlorite schists from the locality Markuška (Slovak Republic)

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Abstract

Mineral composition of marbles, basalt metapyroclastics and chlorite schists was determined at the locality of Markuška. Magnesium-rich actinolite to tremolite was found in basalt metapyroclastics and marbles. In amphiboles, the Fe content ranges from 0.71 to 0.95 *apfu* in the iron-rich zone and from 0.40 to 0.63 *apfu* in the Mg-rich zone. At the A site, the Na content is below 0.13 *apfu* and the B site is predominantly occupied by Ca with > 1.87 *apfu*. Epidote, titanite, albite and fluorapatite occur only in basalt metapyroclastics. Magnesium-rich talc has been identified only in marbles in association with clinocllore. Epidote and titanite have very low substitutions. Chlorites have the greatest chemical variability. The X_{Mg} decreases from chlorite in association with talc in marble (0.96), through chlorite with actinolite in marble (0.79 - 0.82), to chlorite in chlorite schists (0.74) and in basalt metapyroclastics (0.63 - 0.65).

Key words: mineral composition, marbles, basalt metapyroclastics, chlorite schists, Markuška, Slovak Republic

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