



Chemical Composition of Appearances of Silicate Nickel Ores in Region of Dukagjini and their Significance for Further Research

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Abstract: Appearances of nickel silicate ores in the region of Dukagjini are related to lateritic processes ultramaphite rocks that are transported from the weathering crust of ultrabasic massifs and genetically related to lake sediments. The weathering crust was formed from the Jurassic to the Neogene periods. Geographically these occurrences of ores lie in the Junik, Ponošec, Morine, Popoče and Babaj Bokes locality. Study localities belong to the Mirdita-Dukagjin ophiolite zone and represent the western part of the Kosovo territory. The study of chemical composition of the ore occurrences aimed to determine the percentage of nickel and other weathering crust components in order to open the prospect of detailed research for finding deposits of nickel silicate. In each locality, 30 samples were taken, totaling 150, where the average percentage of nickel is 0.56 - 0.96% Ni. The paper aims to determine the prospective sites for detailed research which will enable finding new deposits of nickel silicate in Kosovo which will enrich reserves and funds in favor of the national economy.

Keywords: *chemical composition, Dukagjini, Kosovo, nickel silicate, ore appearances*

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