



Olivine Deposit of Çabрати, Tropoja Ultramaphic Massif, Albania

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Abstract: Tropoja ultramaphic massif, which is located in the northeast of Albania, hosts one of the largest olivine deposits in the whole alpine ophiolite belt. The main sources of the olivine are dunite of the massif, which are mainly intercalations of hartzburgite. The chemical and mineralogical composition and the physical properties of olivine body are relatively uniform. The main component of the dunite is forsterite olivine (Mg_2SiO_4), which consists of 48.24 % MgO, 38.36% SiO_2 and 7.65 % Fe_2O_3 . The average swelling ratio and LOI are 1.18% and 0.95-3.74% respectively, which fit well with requirements of iron and steel industry, as well as with standards of modern refractory requirements. The reserves of the Çabрати olivine deposit are estimated around 150 million tons. This mineral can be exported to international markets, from the port of Durrresi which is about 180 km far from the deposit or Shengjini port that is about 130 km far from the deposit.

Keywords: *olivine, Tropoja ultramaphic massif, eastern ophiolite belt, chemical composition, Çabрати,*

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