

## BENEFICATION OF FELDSPAR FROM YOZGAT REGION GRANITES

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ABSTRACT.- In this study, a feldspar beneficiation work was performed of the granite deposits of Sanhacih and Kayabađı samples found in Yozgat region. Main impurities in these granitic rocks are mica and iron-oxide minerals which cause iron contents to increase (2.37 and 1.76 %  $\text{Fe}_2\text{O}_3$ ). For decreasing the iron content of granites, magnetic separation and flotation methods were applied. After magnetic separation, the iron contents of granites were reduced down to 0.22 and 0.20 %  $\text{Fe}_2\text{O}_3$  respectively. Flotation tests were carried out in two stages that were mica and oxide flotation. In mica flotation, amine type cationic collector and in oxide flotation anionic collectors i.e. Na-oleate and sulphonate were tried. Iron contents of the samples were reduced down to 0.08 % and 0.12  $\text{Fe}_2\text{O}_3$  respectively by flotation method. Firing button tests were also performed on the concentrates at 1250 °C and the products had satisfactorily bright and white color tones for both methods.