

GEOCHEMICAL ASPECTS OF HYDROMAGNESITES OCCURRENCES IN TURKEY

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Magnesite occurrences are widespread in Turkey. They had been formed in connected with ultrabasic rocks in Western/Central Anatolia where many tectonic periods had evolved. REE study is one of the powerful methods in the genetic problems of this kind of occurrences. Normalized REE patterns of carbonates give significant information for their genesis and their deposition conditions and environments. In this study, the rare earth element distribution signatures of hydromagnesite occurrences in and around of the Salda Lake where had been formed in Western Anatolia under the effect of active tectonism. The samples show different REE patterns and Eu, Ce and Yb anomalies. Three types of pattern were determined: a - pattern showing medium and / or partly high REE distribution with small positive Eu anomalies; b - pattern showing a quite low LREE distribution without Eu and Ce anomalies; c - pattern showing slightly high REE (especially HREE) distribution with positive Eu and Yb, and slightly negative Ce anomalies. The REE studies revealed the possible different sources of Mg^{2+} bearing solutions, deposition environments and periods in the studied area.