

朱如凯. 煤系高岭岩的地球化学判别标志[J]. 地质论评, 1997, 43(2): 121-130

煤系高岭岩的地球化学判别标志 [点此下载全文](#)

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摘要:

本文主要研究了煤系高岭岩的微量、稀土、氧同位素地球化学特征。根据高岭岩产出层序、岩石学、矿物学、地球化学特征的研究, 将煤系高岭岩分为两类: (1) 铝土质高岭岩, 微量元素含量、稀土总量, 氧同位素值高, 稀土配分模式与典型北美页岩相似, Eu 负异常, 反映其源岩为风化壳化学风化作用产物。(2) 夹矸高岭岩, 微量元素含量, 稀土总量, 氧同位素值低, 稀土配分模式部分与典型北美页岩相似, 反映其源岩与铝土质高岭岩类似; 部

关键词: [高岭岩](#) [微量元素](#) [稀土元素](#) [煤系](#) [地球化学](#)

GEOCHEMICAL DISCRIMINANT CRITERIA OF THE GENESIS OF KAOLIN ROCKS IN COAL MEASURES [Download Fulltext](#)

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Abstract:

The paper presents the geochemical characteristics of trace elements, REE and oxygen isotopes of kaolin rocks. According to a study of the sequence, petrology, mineralogy and geochemistry, kaolin rocks in coal measures may be divided into bauxitic kaolin rock and tonsteins. Bauxitic kaolin rock has higher the contents of trace elements, REE and oxygen isotopes and its REE pattern is similar to that of the typical NASC with negative Eu anomaly, which suggests that its source rocks are the weathering product of the weathering crust. Tonstein has lower contents of trace elements, REE and oxygen isotopes the REE patterns of some tonsteins are similar to that of the typical NASC, which suggests that the source rocks are similar to bauxitic rocks. The REE patterns of other tonsteins are different from the typical NASC REE pattern with no apparent Eu anomaly which suggests that the source rocks are pyroclastic sediments.

Keywords: [kaolin rock](#) [tonstein](#) [trace elements](#) [REE](#) [oxygen isotope](#)

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