
Experimental Transformation of 2M Sericite into a Rectorite-Type Mixed-Layer Mineral by Treatment with Various Salts. II. Experiments Using a Magnetic Stirrer and a Centrifuge

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Abstract: Dehydroxylated sericites were stirred in the various salt solutions, or washed several times with various salt solutions using a centrifuge. By these treatments a sericite of the 2M type was easily transformed into an interstratified mineral of the rectorite type when a sericite was treated with sodium salts, and random mixed-layer mineral was formed from 1M sericite. The formation of a rectorite-type mixed-layer mineral from 2M sericite can be explained by the (OH) bond direction after the extraction of the potassium ions.

Key Words: Interlayer • Interstratified • Potassium • Rectorite • Sericite

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