
The Nature of Garnierites—II Electron-Optical Study

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Abstract: Electron micrographs of 7 Å-type and 10 Å-type garnierites have been recorded at $5 \cdot 10^4$ – 10^5 X magnifications to show the morphological character of these minerals, and at 10^6 X magnification to show structural features of the particles. The 7 Å, serpentine-like minerals show a greater variety of morphological forms including tube- and rod-shaped particles and also platy forms and poorly defined, fluffy particles, probably aggregates. The 10 Å, talc-like minerals show mainly platy forms and fluffy aggregates, and generally very few tube or rod-shaped particles. At 10^6 X magnifications, the 7 and 10 Å layer spacings are seen directly. In the samples examined, the 7 Å spacings are more clearly and more regularly defined than the 10 Å spacings.

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