

Infrared OH stretching bands for omphacites from Dabie Shan and Higashi Akaishi

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Infrared OH stretching bands for omphacites from the Dabie Shan (Central China) and the Higashi Akaishi (Shikoku, Japan) have been investigated. Several weak bands at 3770~3580 cm^{-1} and up to four strong to medium strong bands at 3580~3200 cm^{-1} were observed by FTIR method. The EPMA-EDS and Moessbauer spectral analyses indicate that the strong bands at 3525 cm^{-1} in Shikoku's omphacites are closely related to their abundance with aegirine molecule.