

Occurrence of cataclastic breccia (cataclasite) of peridotite in the northern Oman ophiolite

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Cataclastic breccia of serpentized peridotite are observed in the mantle section of the northern Oman ophiolite. The two planar dikelets and one lenticular-shaped dike were formed in Wadi Hilti area and Wadi Jibjibah area, respectively. The displacement is almost nil to approximately 40cm along the dike. The matrix is composed of serpentine, tremolite, and fine-grained sulfide. On the other hand, the clasts are fresh peridotites (harzburgite, dunite). Their occurrences suggest the origin of brecciation due to eruptive passage of H₂O-rich fluid.