

Microstructural analysis of a ductile shear zone within the Fizh mantle section in the northern Oman ophiolite

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Ductile shear zones in the Fizh peridotite body in the northern Oman ophiolite have been formed during obduction process. They developed porphyroclastic textures (Low-T type), which is distinguished from equigranular textures (High-T type) resulting from the asthenospheric flow. Microstructural analyses show that olivine fabrics are intenser at the margin than in the center of the shear zone, suggesting that established olivine fabrics at high-T condition has been disturbed during shearing at low-T condition.