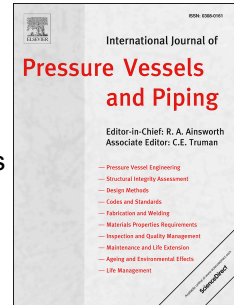


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Mechanical behaviour at high temperature as induced during welding of a 6xxx series aluminium alloy

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- Microstructural effects on work-hardening of a 6xxx aluminium is studied
- A semiphysical work-hardening model that account for precipitate volume fraction is presented
- Temperature dependence is also included thanks to a isokinetic precipitate evolution
- Neutron diffraction allows to validate residual stresses of the welding simulation

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