

The Failure Modes of Friction Stir Welding

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ABSTRACT

Failure mechanism of spot friction welds of aluminum alloy 6061-T6 in lap-shear specimens is investigated. In this research, the failure strength of the spot function welds with different tool pin angle under static tensile loads are studied. Microstructures of the spot friction welds in lap-shear specimens before and after static tensile tests are examined. Keywords: friction stir welding, welding tool, fracture, metallography

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