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 sport 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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