

## TEMPERATURE MONITORING IN FRICTION STIR WELDING USING THERMOVISION METHOD

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### ABSTRACT

*The paper presents an influence of temperature changes investigation during arc welding process. Heat input in weld joint during arc welding is necessary for base and filler material melting on joint location. Depending on heat input (primar and secundar heat input), applied welding process, type and thickness of material, grove preparation and other welding process influencing variables, the temperature field distribution during heating and cooling of weld joint is formed. Temperature changes of individual points in weld joint during heating and cooling have influence on mechanical and other properties of welded joint. The paper presents application of thermovision method for temperature field determination at welding process.*

**KEYWORDS:** FSW, temperature fields, thermovision camera

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