

THERMOGRAPHY USED IN FRICTION STIR WELDING PROCESSES

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ABSTRACT

Thermography represents a modern technique used in thermal field investigation for different domains. In welding, for monitoring, inspections and research are being used. The aim of the temperature-based monitoring system is to determine the variations of thermal fields. The measurements are difficult, with uncertainty due to the temperature variations vs. main parameters, emission and reflectivity. Measurement accuracy can increase if proper welding calibration is realized. The paper focuses on particular aspects regarding thermal field analysis, using the above mentioned technique for friction stir welding (FSW) process, using Thermo Vision A20M camera.

KEYWORDS: thermography, welding, FSW.

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