Thermal Characterization of Friction Stir Welded Butt Joints

S. Beccari\textsuperscript{1}, L. D'Acquisto\textsuperscript{2}, L. Fratini\textsuperscript{1,a} and C. Salamone\textsuperscript{1}

\textsuperscript{1}Dipartimento di Tecnologia Meccanica, Produzione e Ingegneria Gestionale, Università di Palermo, Viale delle Scienze, 90128 Palermo, Italy

\textsuperscript{2}Dipartimento di Meccanica, Università di Palermo, Viale delle Scienze, 90128 Palermo, Italy

\textsuperscript{a}abaqus@dtpm.unipa.it

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Abstract. In the paper the thermal characterization of friction stir welding processes (FSW) of aluminium alloys is presented. In particular both embedded thermocouples and a thermography analysis were utilized in order to acquire the temperature vs. time curves in point of interests of the joints and the temperature distributions, respectively. Such kind of results are very important in order to investigate the material conditions during the FSW process.