

ABSTRACT**RESISTANCE WELDING OF UNWELDABLE METALS WITH
THERMAL SPRAYED INTERLAYERS**

The invention relates to a method for joining of at least two materials, non-weldable directly to each other with thermal joining processes in a lap joint configuration, where a two step sequence is used consisting of a first step to apply a thermomechanical or mechanical surface protection layer on the surface of a (stainless) steel substrate (1) and a second step where, a thermal joining process is used to weld the sprayed layer (2) with an applied aluminum sheet (3) without having brittle intermetallic phases in the whole material configuration.

FIG. 3