Analysis of Arc Stability in MIG Brazing of 304L Stainless Steel Using Solid and Flux-Cored Wire

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At the present time, consumables assortment intended for utilization of MIG brazing process enables its application possibilities also for the joining of high-alloyed austenitic steels. In that case, the substitution of arc welding processes (such as MIG/MAG, or TIG) by the brazing process makes it possible to limit the weldability issue related to the crystallization of weld metal (hot cracking) and to the deformations (induced by excessive amount of heat input to the joint). Additional technological benefits may be offered by an application of flux-cored wires, which have been utilizing successfully within arc welding processes.
Submitted paper is aimed to verify differences in the character and behaviour of arc metal transfer and in the stability of arc during MIG brazing of austenitic stainless steel by selected types of solid and flux-cored wire electrodes.

Keywords: Arc-Brazing, Brazing of 304L, Flux-Cored wire, Arc Stability

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