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INFLUENCE OF ROTATIONAL SPEED ON THERMAL BEHAVIOR AND TENSILE STRENGTH OF FRICTION WELDED AISI 316L AND COPPER JOINTS

Prof. Dr. Gülzar İBRAHİMOVA

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ABSTRACT BOOK



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ABSTRACT

This experimental work aims to study the effect of variations of rotary friction welding parameters on the thermal behavior and mechanical properties of dissimilar joints stainless steel/copper. To achieve this objective, a rotary friction welding process of AISI 316L stainless steel rods with copper rods was carried out, using a milling machine as the friction welding machine, with changing the rotational speed, and measuring the temperature changes of the joints during the welding process. After welding, the joints were subjected to tensile tests to evaluate their mechanical strength. The experimental results showed a strong relationship between the rotational speed and the thermal behavior of the joints, and the strength of the joints is also affected by the changes of the rotational speed.

Keywords: Rotary friction welding, Copper, AISI 316L stainless steel, rotational speed, temperature measurement, tensile strength.