

THE MICROHARDNESS VARIATION OF THE WELDING BEAD IN CASE OF THE ELECTRON BEAM WELDING

Adriana Munteanu¹, Dragos Achitei²

¹Technical University "Gheorghe Asachi" of Iasi-Romania, Department of Machine Tools ² Technical University "Gheorghe Asachi" of Iasi-Romania, Faculty of Materials Science and Engineering

Corresponding author: Adriana Munteanu, adycypmunteanu@yahoo.com

Abstract: The applicability of non-conventional technologies, especially the electron beam process transferred quickly in industrial field, needs an analysis of the main principles of this different process of working. In case of the electron beam welding, since the beginning of this method of processing it represent an important problem of study. Researches are directed in the present paper towards the melting area of the joint. The microhardening variation of the welding bead in case of the electron beam welding clarified some aspect of this method of working.

Key words: electron beam welding, hardness, penetration depth, welding bead.