

Résistance à la corrosion des joints soudés par le procédéTIG, d'un assemblage hétérogène 304L /A9étamé, dansNaCl 32g/l.

Badr Eddine MAALEM

Soutenue en: 2015

Abstract : The heterogeneous welding of extra-soft steel A9 and a rustproof austenitic steel AISI304Lhas been achieved by the TIG process (autogeneous welding).Soldering have been made in the goal to substitute the mechanical assembly (clinch, bolting)in certain applications. In the other hand, to value the resistance to the corrosion of joints welded to certain types of corrosion galvanic coupling for example.Three profiles have been achieved; the two welded separately the extra-soft steel A9 andrustproof austenitic steel AISI304L then together steels.A comparison of corrosion parameters (speed of corrosion, potential and current of corrosion)of the three profiles shows that the heterogeneous joint is good resistant in a saline solutionaired without agitation to 32g/l NaCl that homogeneous assembly A9.

Keywords : heterogeneous welding, TIG, galvanic corrosion, rustproof steel.