

# ESSAI DE TRACTION ASSISTÉ PAR CORRELATION D'IMAGES SUR JOINTS SOUDÉS EN ACIERS INOXYDABLES AUSTENITIQUES (AISI 316L)

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**Abstract :** The aim of this study is to determinate the map of displacements and deformations (2D) field, which seem in traction test about tube welded of austenitic stainless steel (AISI 316L). We used for this a traction machine assisted by image correlation software « DaVis» which is used to compare two successive images displacements for various points in molten zone. The results obtained show that deformations are weak in the base metal, and it become strong when we near to the molten zone.

**Keywords :** austenitic stainless steel 316L, welding, deformation, image correlation