عنوان مقاله:

Effect of Input Heat of SMAW Process on Microstructure and Corrosion of Weld Metal API &L XF& Steel Joints Coated with INCOLOY AY& Superalloy

محل انتشار:

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تعداد صفحات اصل مقاله: 10

نویسنده:

خلاصه مقاله:

In this study, the effect of input heat of SMAW process on the microstructure and corrosion behavior of welded metal API ۵L X۶۵ steel joints coated with INCOLOY AYA superalloy was investigated. Welding with input heat of 1.0%, 0.99 and o.9% kJ / mm was performed using EYoNA filler metal by SMAW process. FESEM scanning light and electron microscopy was used to study the microstructure. Evaluation of corrosion behavior of weld metal was performed using TOEFL polarization test in ۳.۵% NaCl solution. The microstructural results showed that the needle ferrite in the weld metal microstructure decreased with increasing inlet heat. While the values of Wiedmann Statten ferrites are multifaceted and grain boundaries. It was found that increasing the inlet heat had a negative effect and reduced the .corrosion resistance of the weld metal

کلمات کلیدی: X۶۵ steel, corrosion, electrode ۲۰۱۸, welding, SMAW Process, خوردگی, الکترود ۲۰۱۸ جوشكاري, فرآيند SMAW

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