

عنوان مقاله:

Investigation on the Synergistic Effect of A Film Forming Corrosion Inhibitor and An Oxygen Scavenger for C-Steel
Corrosion Prevention in A Desalting Plant

محل انتشار:

دهمین کنگره ملی خوردگی ایران (سال: 1386)

تعداد صفحات اصل مقاله: 10

نویسندگان:

A.J Arabzadeh - MSc. Student, School of Metallurgy and Materials Eng., Department of Eng., University of Tehran

S.R Allahkaram - Associate prof, School of Metallurgy and Materials Eng., Department of Eng., University of Tehran

خلاصه مقاله:

Desalting plants are often installed in crude oil production units in order to remove water soluble salts from an oil stream. The effect of an organic corrosion inhibitor on the corrosion rate of C-Steel in a desalting plant has been investigated by various corrosion monitoring techniques. The adsorption process was found to obey the Langmuir adsorption isotherm. The effect of adding the bisulfite oxygen scavenger to this corrosion inhibitor, investigated by the wheel test method causes a great reduction of corrosion rate in this medium which shows the synergistic effect of these two materials. Figure 1 shows the effect of adding a film forming corrosion inhibitor on C-Steel in a desalting plant and figure 2 shows the synergistic effect of 200ppm. the bisulfite oxygen scavenger and the film forming corrosion inhibitor obtained by the wheel test method in this medium according to the NACE 10 - 182 standard. AB .Figure2 shows, the synergistic effect of the two materials is a great decrease of the corrosion rate in a desalting plant

کلمات کلیدی:

corrosion inhibitor, desalting plant, synergistic effect, oxygen scavenger, Csteel

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/67274>

