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Research Details :

Research Title : *Inhibition of pitting corrosion of 1018 carbon steel using some pyrazole derivatives*
Inhibition of pitting corrosion of 1018 carbon steel using some pyrazole derivatives

Descriptipn : Pitting corrosion of 1018 carbon steel electrode in 0.1 M NaHCO₃ solutions containing increased additions of NaCl was studied using potentiodynamic anodic polarization technique. The pitting corrosion potential varies with the logarithm of Cl⁻ ion concentrations according to segmoidal S-shaped curves. These curves were explained on the basis of formation of passivable, limiting active and continuously propagated pits depending on the range of Cl⁻ ion concentrations. Addition of some 3-substituted pyrazole caused a shift of the pitting potential in the noble direction accounting for increased resistance to pitting attack.

Research Type : Article

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