

Sulpha Schiff Bases as Corrosion Inhibitors for Mild Steel in 1M Sulphuric Acid

S. Chitra, Kandaswamy Parameswari, Chandran Sivakami, A. Selvaraj

Abstract

Sulphanilic acid and sulphanilamide schiff bases have been synthesised and evaluated as inhibitors for mild steel corrosion in 1M H₂SO₄ by electrochemical and non electrochemical techniques. The inhibition efficiency increases with inhibitor concentration and decreases with temperature. The adsorption of the inhibitors on the mild steel surface obeys Langmuir and Temkin adsorption isotherms. Potentiodynamic polarization studies show that the inhibitors behave as mixed inhibitors. Addition of halide ions enhances the inhibition efficiency

Keywords: Sulpha Schiff bases, potentiodynamic polarization, A.C. impedance, corrosion inhibitors

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