

Electrochemical corrosion behavior of mild steel in acidic medium containing different organic inhibitors

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Abstract

The review summarizes papers related to electrochemical corrosion behavior of mild steel in acidic medium containing newly synthesized green or environmental organic inhibitors. The review covers: electrochemistry, isotherms, immersion time, temperature, and inhibition efficiency. The electrochemical corrosion behavior was investigated using various electrochemical techniques, i.e. open-circuit potential (OCP), potentiodynamic polarization, electrochemical impedance measurements (EIS) and surface examination via scanning electron microscope (SEM) technique.

Keywords: Corrosion; mild steel; organic inhibitor.

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