

Turkish Journal of Chemistry

Turkish Journal

The Effects of Detergent Pollution on the Corrosion of Iron and Aluminium

of


Chemistry

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Abstract: The current-potential values were measured with iron or aluminium electrodes in solutions of 3.5% NaCl containing 30, 150, 300 ppm linear alkylbenzene (LAB) and detergents (LAS) at pH8. Polarization resistances (R_p) were determined using the values of current and potentials. The corrosion rates of iron and aluminium were determined in 2 and 4 hour intervals using the Mansfeld-Oldham equation based on the Stern-Geary and Butler-Volmer equations.



Turk. J. Chem., **23**, (1999), 393-400.

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