



Corrosion Inhibition of Aluminium in Hydrochloric Acid by Natural Plant Extracts

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GRIN Verlag GmbH Sep 2014, 2014. Taschenbuch. Book Condition: Neu. 211x151x6 mm. Neuware - Research Paper from the year 2014 in the subject Chemistry - General, grade: 3, course: MSc, language: English, abstract: Aluminium, being a highly reactive metal, corrodes rapidly in acidic (pH 6) and alkaline (pH 12.5) media. Hence it has to be protected when it is likely to come in contact with such solutions, e.g., during cleaning or acid pickling. One method of protection is the addition of inhibitor to the corroding medium. In the present work, ethanol extract of Azadirechta indica and Murraya koenigii leaves have been investigated as corrosion inhibitor for aluminium in aqueous hydrochloric acid. The corrosion of Aluminium in plain hydrochloric acid, as well as inhibited, is found to increase with a rise in temperature. Thus in uninhibited 0.5 M HCl the loss in weight due to corrosion for an exposure period of 60 min increases from 736 mg/dm² at 35°C to 852, 922, and 958 mg/dm² at 45°C, 55°C and 65°C respectively. In inhibited 0.5 M HCl containing 1.30% of Azadirechta indica, it was observed that at 35°C and for an exposure period of 60 min Azadirechta indica confer 100.0% protection....

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