

In this issue

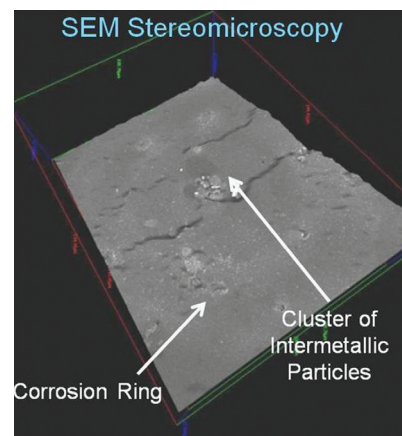
Anthony E. Hughes, Reza Parvizi and Maria Forsyth

Microstructure and corrosion of AA2024

DOI 10.1515/correv-2014-0039
Corros Rev 2015; 33(1-2): 1–30

Review: This paper reviews the microstructural and electrochemical aspects of AA2024-T3 that have emerged in recent years revealing how they contrast with our historical understanding of this alloy.

Keywords: AA2024; characterisation; corrosion; electrochemistry; microstructure.

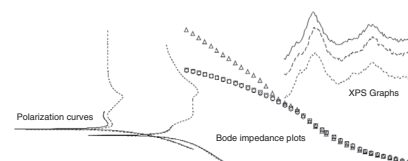


Akbar Niaz and Mayowa Sunday Bakare
Electrochemical corrosion testing and characterization of potential assisted passive layer on HVOF Inconel 625 coating

DOI 10.1515/correv-2014-0037
Corros Rev 2015; 33(1-2): 63–76

Original article: Characterization of potentiostatically grown passive layer on Inconel 625 coating by electrochemical impedance spectroscopy and X-ray photoelectron spectroscopy.

Keywords: corrosion testing; electrochemical; HVOF coating; superalloy.



Hany M. Abd El-Lateef, Mohamed Ismael and Ibrahim M.A. Mohamed
Novel Schiff base amino acid as corrosion inhibitors for carbon steel in CO₂-saturated 3.5% NaCl solution: experimental and computational study

DOI 10.1515/correv-2014-0059
Corros Rev 2015; 33(1-2): 77–97

Original article: In this work, electrochemical and theoretical quantum approaches in agreement with some SEM/EDAX investigations were used to study the corrosion inhibition of carbon steel in CO₂-saturated brine using new Schiff base amino acid compounds as corrosion inhibitors.

Keywords: chemisorption; corrosion inhibition; EDAX; quantum chemical calculations; Schiff bases; SEM.

