New Fe-Co Metal-Metal Glassy Alloys Exhibit Exceptional Resistance and Passivation Behavior in Alkaline Conditions

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Abstract

The electrochemical geste of the oxide layers on two essence- essence glassy blends, Fe78Co9Cr10Mo2Al1(VX9) and Fe49Co49V2(VX50)(at.), were studied using electrochemical ways including electrochemical frequence modulation(EFM), electrochemical impedance spectroscopy(EIS) and cyclic polarization(CP) measures [1]. The morphology and composition of the amalgamation shells were delved usingX-ray photoelectron spectroscopy(XPS), surveying electron microscopy(SEM) and infnitesimal force microscopy(AFM). The erosion rate and face roughness of both blends increased as the attention of NaOH in waterless result was raised. The presence of some defensive rudiments in the composition of the blends led to the conformation of a robotic unresistant subcaste on the amalgamation face [2]. The advanced resistance values of both blends were associated with the magnitude of the dielectric parcels of the unresistant ficks formed on their shells. Both blends are classifed as having outstanding resistance to erosion, which results from the conformation of a unresistant flm that acts as an efective hedge to erosion in alkaline result [3].

Keywords:

Introduction

Description

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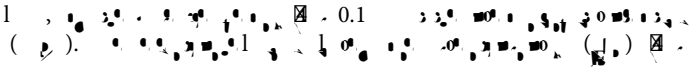

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