

The Combined Effect of the Magnetic Field and Ammonium Chlorides on Deposits Zn-Ni Obtained in Different Conditions

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Abstract : The zinc-nickel deposition on stainless steel substrate was obtained in a chloride bath composed of ZnCl₂ (1.8M), NiCl₂.6H₂O (1.1M), boric acid H₃BO₃ (1M) and NH₄Cl (4M). One configuration was studied the amplitude or field B (0.5 et1T) is parallel to the surface of the working electrodes .the other share the study of various layer was carried out by XRD. The study of the effect of ammonium chloride in combination with the magnetohydrodynamic effect gave several deposits supposedly good physical properties.

Keywords : ammonium chloride, magnetic field, nickel-zinc alloys, co-deposition

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