

STUDIES OF ROLE OF ADDITIVES ON ELECTRODEPOSITION OF ZN-MN-MO ALLOY FROM CITRATE BATH

RENU RASTOGI

Department of Chemistry, Brahmanand P. G. College, Kanpur, Uttar Pradesh, India

ABSTRACT

The ternary Zn-Mn-Mo alloys were electrodeposited containing Zinc sulphate 30gL^{-1} , Manganese sulphate 60gL^{-1} , Ammonium molybdate 4gL^{-1} , Citric acid 5gL^{-1} and Starch 1gL^{-1} in presence of one of the following additives: glycine, urea, sulphosalicylic acid, sucrose or thiourea. Smooth, bright grey deposits were formed in presence of these addition agents. Effect of concentrations of these additives on deposit composition, cathode efficiency, cathode polarization and throwing number of the bath were also studied.

KEYWORDS: Additives, Composition, Cathode Efficiency, Polarization, Throwing Number