

Influence of some operating parameters on the electroplating of cobalt from acetate baths. Emad, M.; Abulkibash, A. M. S.; El Rehim, S. S. Abd. Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. Transactions of the Institute of Metal Finishing (2001), 79(2), 52-55. Publisher: Institute of Metal Finishing, CODEN: TIMFA2 ISSN: 0020-2967. Journal written in English. CAN 135:201894 AN 2001:471364 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

The electroplating of cobalt on steel substrates from acidic baths contg. cobalt acetate and acetic acid was studied for the influences of bath compn., c.d. and temp. The influences of these parameters on the potentiodynamic cathodic polarization, cathodic current efficiency, anodic stripping voltammetry and the throwing power of these baths were studied. The surface morphol. of the as-plated cobalt was examd. by SEM and the crystal structure by x-ray diffraction.