

عنوان مقاله:

STUDY ON CORROSION BEHAVIOR OF COBALT NANO COMPOSITE COATINGS

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خلاصه مقاله:

Metal matrix nano composite coatings possess enhanced properties such as corrosion and wear resistance. This paper aims to study the corrosion behavior of pure Co and Co-BN nano composite coatings deposited with different particles concentration ($5-20 \text{ g L}^{-1}$) on copper substrates using electroplating technique. Morphology and elemental compositions of the coatings were investigated by means of scanning electron microscope (SEM) equipped with an energy dispersive spectroscopy (EDS). The corrosion behavior was analyzed in a ۳.۵ wt% NaCl via polarization and impedance techniques. The results obtained in this study indicate that the co-deposition of BN nano particles improved corrosion resistance of electrodeposited cobalt coatings.

کلمات کلیدی:

.Corrosion; Electroplating; Polarization; Impedance

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