ABSTRACT

The investigation about the influence of concentration of iron impurities have been carried out on the process of Cu coated to steel in acid bath which is consist of cooper sulfat pentahydrat, copper metal and sulfuric acid through the electroitic methode. The concentration of iron impurities in the acid bath was vary at 0 ppm, 5 ppm, 10 ppm, 15 ppm, 20 ppm and 25 ppm. The electroitic process have been done with the current density was 60 mA/cm² for 30 minute. The concentration of iron impurities was measured by AAS before and after process electroitic, the thickness of deposit was measured by microspe, microhardness tester was used for the hardness of deposit. The concentration of Fe²⁺ in the acid bath increased from 0 ppm until 25 ppm also increased Fe contain in the Cu deposit was 0.0008 mg/3cm² until 0.0750 mg/3cm² but that was not influence the thickness and hardness of deposit.