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Polymer Additives For High Quality Coating Obtainment

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ABSTRACT

This article is devoted to the development of new polymer additives for the process of copper electroplating from sulfate solutions with a purpose of copper coating obtaining. Copper coating, obtained from electrolytes in the presence of DEA-PAN additives and thiourea are of high-quality: they are thick, fine-grained, and in some cases, shiny. Increase of temperature can significantly speed up the process without compromising the high quality of the coatings obtained from electrolyte DEA-PAN or with a combined additive thiourea and DEA-PAN. Current output is close to 90 %. Electrolyte composition and the mode of copper plating electrolyte is given. Flow diagram of metal-crystalline and thick copper coatings on the articles of ST (Steel) - 3, and also from the copper electrolyte proposed by us includes the following process operations: mechanical surface cleaning and preparation details, electrochemical degreasing, etching, pickling, copper plating.

Keywords: surfactants, coating, sediment, copper, electro crystallization, electro reduction, thiourea, additives.
