

ABSTRACT

"Electroplating coatings in instrument engineering. Development of technology of copper coating on parts of complex configuration "

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The diploma project develops technology of copper covering on the base for protection of steel part against corrosion and giving beautiful appearance. The copper coating is formed with ethylenediamine electrolyte at cathodic current density 2 A/dm^2 at room temperature. The technological card is made, the technological calculations are carried out, the appropriate equipment is selected. Developed drawings of copper bath and the scheme of automation of the process. Conducted economic calculations, namely, the types of movements of goods, wages, number of staff and technical and economic indicators. The technological scheme of wastewater treatment with return of their to technological process is offered. Harmful and dangerous production factors and ways of their elimination are listed.

Key words: electrolysis, copper plating, ethylenediamine electrolyte, protective-decorative coating, wastewater treatment, galvanic bath, oxidation.