

ABSTRACT

Galvanic coatings in engineering plant. Development of technical process of copper plating to steel details.

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In this project the technology of galvanic copper plating on steel parts in a automatic line with productivity 21000 sq m/year has been developed. Calculation of the technological process and choice of electroplating bath has been done. The optimum process parameters that provide high-quality coatings with special properties necessary.

The project envisages measures for safety, process parameters' automation. A scheme of sewage treatment, material, documentary, organizational and technical preparation of production is developed.

Deposition of the copper takes place from pyrophosphate electrolyte at cathodic current density 0,8 - 3 A/sq dm during 65,52 minutes.

Keywords: copper plating, galvanic bath, pyrophosphate electrolyte, automatic operator, sewage treatment, economy.

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