

ABSTRACT

Electroplating in Mechanical Engineering. The development of technology process of protective and decorative coatings in the color gold on aluminum details

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The technological process of coating aluminum parts with protective and decorative oxidic covering gold color was developed in this project. Oxidation is carried out in sulfuric acid electrolyte at 18-20°C, anodic current density 2 A/dm² and 16,9 V voltage. The oxide layer painting proceed in the organic dyes solution.

The project conducted design and engineering calculations, automatic control scheme of the process of anodizing. The project provides safety measures proposed method of sewage ion-exchange method, designed the main technical and economic indicators.

Keywords: anodizing, aluminum, sulfate electrolyte, anode, cathode, galvanic bath, painting, automatic control, production, workplace health and safety.

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