

ABSTRACT

«Electroplating in instrumentation. Development of the technology of coating the tin-cadmium alloy on the steel parts»

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The project developed a technology for coating tin-cadmium alloy on a steel bracket, in go off achievementhigh corrosion resistance. The deposition of the coating is made of chloride-fluoride electrolyte for application of tin-cadmium alloy in an electrolyzer at a cathode current density of 1,5 A/dm². The project conducted design and engineering calculations, selected the appropriate equipment, automatic control scheme developed coating process of an alloy of tin-cadmium. Calculation of salary calculation and technical and economic indicators are executed. The project used a scheme of wastewater treatment with a reagent method and reverse osmosis, analyzed harmful and dangerous production factors and proposed measures for safety and occupational safety.

Key words: alloy, tin, cadmium, galvanic coating, equipment, electrolysis, wastewater.

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