

ABSTRACT

Galvanic coatings in instrument building industry. The development of technological process for silver coating on steel parts in stationary electrolyzer.

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The project developed a technology application matte silver single-layer coating thickness relay contacts 9 microns, to provide high contact conductivity and durability. Deposition of the silver held from hexacyanogenferat-thiocyanate electrolyte in the electrolytic drum at a cathode current density of 1 A/dm² and a temperature of 55 ° C. The project conducted design and engineering calculations selected the appropriate equipment, developed a scheme of automatic regulation of silver. Calculations of energy management, wage and technical and economic indicators. The project has used wastewater treatment reagent and ion-exchange method, analyzed the harmful and dangerous production factors and proposed safety measures and safety.

Keywords: electroplating, silver, galvanic baths, drum electrolytic balance voltage electrolysis, wastewater.

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