

ABSTRACT

Galvanic coatings in instrument making. Development of technological process of application of nickel coating on brass parts.

Lapa M.O.- Kyiv: "KPI them. Igor Sikorsky ", HTF, HE - 41.

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In this project a technology for applying nickel coatings with a productivity of 16000 m² per year has been developed. The basic electrolytes of nickel plating are considered, the use of sulfamate electrolyte is selected and substantiated. The balance of current and voltage, energy and heat in the bath are calculated. The cost of electrolyte and water for the initial launch of equipment and for the implementation of the annual program are calculated.

The project developed a scheme for automation of the application of nickel coating. Techno-economic indicators are calculated. The scheme of sewage treatment is developed. Considered measures to protect the work such as: normalization of air in the working area, industrial lighting, protection against noise, vibration and electric shock, fire safety.

Key words: nickel, sulfamate electrolyte, brass parts, current, voltage, heat, flow, ecological safety, sewage, safety equipment.

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