

ABSTRACT

Galvanic coatings in aircraft industry. The development of technological process for shiny protective–decorative chromium coating on steel details.

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The project technology of applying protective-decorative shiny chromium coating thickness of 1 mkm overhead door handle cap, in order to improve the mechanical and corrosion resistance coating and to provide surface of the product improvement of decorative properties. Precipitation of chromium is carried out with a self-regulating electrolyte in the cathode current density of 70 A/dm² and a temperature of 60 °C.

The project conducted design and engineering calculations, favorites appropriate equipment, developed a scheme of automatic regulation of chrome plating process. The calculated technical and economic indicators and estimation of the economic effect from the introduction of the electrolyte. The project proposed scheme waste water treatment reagent method; analyzed the harmful and dangerous production factors and proposed measures for safety and health.

Keywords: chromium, self-regulating electrolyte, galvanic bath, balance voltage, wastewater.

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