

ABSTRACT

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

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In project is presented the technology of 12 μm of shiny protective–decorative chromium coating on handles that was developed. Chromium deposition is carried out from self-regulating sulphate electrolyte at 60° C and cathodic current density of 50 A/dm². In project constructive and technologic calculations were made. The suitable equipment were chosen and automatic system for chromium deposition process proposed. Energy balance calculations, salary and calculations of technical and economic parameters were made. Reagent method with reverse osmosis for sewage water purification proposed. Harmful and dangerous influences were analyzed and measures for labor safety and prevention of accidents proposed.

Key words: shiny chromium plating, self-regulating electrolyte of chromium plating, stationary galvanic bath, voltage balance, electrolysis, reagent metod with reverse osmosis.