

## ABSTRACT

«Electroplating in machine building. The development of porous chromium coating technology on a steel parts»

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In this project was developed process of galvanic porous chromium coating on a steel sleeve, in order to increase durability and absorption. The deposition of the coating is made from a standard electrolyte of chromium in an electrolyzer at a cathode current density of 60 A / dm<sup>2</sup>. In the project are carried out constructive and technological calculations, selected relevant equipment, developed a scheme for automatic regulation of porous chromium process. Calculations of energy economy, salary and technical and economic indicators are executed. The project used a scheme for wastewater treatment by electrocoagulation and reverse osmosis, analyzed harmful and hazardous production factors and proposed measures for safety and occupational safety.

Key words: galvanic coatings, chromium plating, galvanic bath, porous chromium, voltage balance, electrolysis, wastewater.

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