

ABSTRACT

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

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Diploma project, 2019, pages –72 , tables –19 , pictures –10 , sources –12 .

The project developed a technological process of galvanic matte zinc plating of steel parts with a productivity of 12,000 m²/year. Application of zinc coating is made from a sulfate electrolyte with an additive dextrin at a temperature of 18-25, cathode current density of 2 A/dm². Automatic regulation of the zinc coating process was developed, a scheme of sewage treatment by a ferromagnetic method was proposed. The analysis of hazardous and hazardous production factors, safety and health measures has been proposed, and the main technical and economic indicators have been calculated.

Key words: galvanic zinc coating, galvanic bath, voltage balance, electrolysis, corrosion.