

## ABSTRACT

"Galvanic coatings in machine building. Development of the technology of brilliant zinc coating on steel parts »

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In this project, the technology of applying a brilliant zinc coating to a steel adapter with a thickness of 6 microns, was designed to provide high corrosion resistance and qualitative appearance. Zinc is precipitated from chloride electrolyte in a stationary bath at a cathode current density of  $3 \text{ A / dm}^2$  and at a temperature of  $18-25 \text{ }^\circ \text{C}$ . In the diploma project, constructive and technological calculations were carried out, appropriate equipment was selected and a scheme of automatic regulation of the zinc process was developed. Wages and technical and economic indicators are calculated. In this project the scheme of sewage treatment by electrochemical and ion-exchange methods was applied, toxic and dangerous production factors were analyzed and safety and health measures were proposed.

Key words: galvanic glossy coatings, zinc coatings, stationary galvanic bath, electrolysis, sewage.