

ABSTRACT

Galvanic coatings in machine engineering. Development of technical process of application of zinc coating on steel small parts.

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Diploma project, 2016 year, 98 pages, 18 tables, 4 figures, 16 sources.

For improving the corrosion resistance of steel parts the technical process of zinc plating with production 20 000 m²/year has been developed. Calculation of technological process has been released. Metal deposition takes place from sulphate electrolyte at cathodic current density 2 A/m².

The project envisages measures for safety, automation, calculated the cost of 1m² finished surfaces, waste water purification scheme is proposed.

Key words: galvanic coatings, zinc, current density, sulphate electrolyte, drum-type electrolyser, production automation, waste water purification.

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