

## ABSTRACT

Electroplating in machine engineering. Designing of technological process of electroplating of matte copper coating on steel details.

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The project developed a technological process application matte copper coating thickness of 30 microns on gear for protection from cementation. Deposition of the copper is carried out from cyanide electrolyte at 50-60°C and cathodic current density of 2 A/dm<sup>2</sup>.

The project conducted design and engineering calculations selected the appropriate equipment, developed a scheme of automatic regulation of copperplating. Calculations of energy management, wageand technical and economic indicators. The project has used wastewater treatment combined method, analyzed the harmful and dangerous production factors and proposed safety measures and safety.

Keywords: electroplating, copperplating, cyanide electrolyte, stationary galvanic bath, current density, waste water purification .

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