

## ABSTRACT

«Electroplating in aircraft. Development of technology of anodizing parts of aluminum alloy»

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Diploma project, 2018. Number of pages – 84 , tables – 20, pictures – 5 , literature – 25 .

The technological process of anodizing aluminum alloy parts D16 was developed in this project. Oxidation is carried out in sulfuric acid electrolyte at 18–25°C, anodic current density 1,5 A/dm<sup>2</sup> and 16,8 V voltage.

The project conducted design and engineering calculations, automatic control scheme of the process of anodizing. The project used a scheme for wastewater treatment by reagent and ion-exchange method, analyzed harmful and hazardous production factors and proposed measures for safety and occupational safety, designed the main technical and economic indicators.

Keywords: anodizing, oxide film, aluminum, sulfate electrolyte, anode, cathode, galvanic bath, wastewater.

					ДП ХЕ4116.1450.000 ПЗ	Арк.
Змн.	Арк.	№ докум.	Підпис	Дата		