

ABSTRACT

Electroplating in aircraft. Development of technology process ematalirising of aluminum details.

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The project developed a manufacturing process ematalirising of aluminum details using oxalate electrolyte containing a salt of titanium. Selected and designed galvanic bath for electroplating with a capacity of 11,000 m² / year. Ematalirising held at 50-60 °C, the anode current density of 3 A / dm² and voltage of 21.9 V.

The project held constructive and technological calculations, designed automatic control scheme of anodizing process. Calculations of cost and wages were held. In project used scheme of wastewater treatment by reagent method, analyzed harmful and dangerous production factors, proposed safety measures and labor protection.

Keywords: ematalirising, anodizing, current density, plating baths, current source, aluminum details, oxalate electrolyte.

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