ABSTRACT

Electroplating in aircraft. The development the technology process of insulating anodized aluminum details.

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In the project developed a manufacturing process insulating anodized aluminum details using oxalate-sulphosalicylic electrolyte. This electrolyte is characterized by a low rate of dissolution of anodic film, the high growth rate of the film thickness , low ability to form pores, low rate of chemical dissolution of metal, equability of the film formed. For electroplating selected and designed the galvanic baths type 14-2 ОСТ2 П65-І-80 size 1250×710×1000 *mm* with a capacity of 21000 m^2/year.

The project held constructive and technological calculations, automatic control scheme designed anodizing process. The calculations of cost and wages. The project scheme used wastewater treatment reagent method, analyzed harmful and dangerous production factors and proposed safety measures in galvanic production.

Keywords: anodizing, aluminum alloy, routing, plating baths, a current source, voltage, current density, oxalate-sulphosalicylic electrolyte.