

ABSTRACT

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

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Diploma project, 2016. Number of pages 90, tables 21, pictures 5, literature

The project developed a process ematalirising of aluminum details.

Oxidation is carried out in an electrolyte based on potassium titanium oxalate at temperature of 50-60 ° C, the voltage of 120 V and current density 1 A / dm². The film has a milky white color.

In this diploma thesis engineering calculations have been conducted, automatic control scheme of the process has been developed. The project describes measures for safety, ultrafiltration and reagent as methods of sewage treatment. In addition, main technical and economic indicators have been calculated.

Keywords: ematalirising, aluminum, anode, cathode, potassium titanium oxalate, galvanic bath, oxide film, automatic control, cost, labor.

<i>ДП ХК2114.1450.000 ПЗ</i>								
					<i>Розробка технології формування ематальпокриттів на алюмінієвих деталях</i>			
<i>Изм</i>	<i>Лист</i>	<i>№ докум.</i>	<i>Подп.</i>	<i>Дата</i>		<i>Лит.</i>	<i>Лист</i>	<i>Листов</i>
<i>Розроб.</i>	<i>Леонова</i>							
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					<i>ХТФ, гр. ХЕ-21</i>			