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The invention relates to the aluminium anodization and may be applied in microelectronics for hybrid integrated circuit [IC] substrates manufacture.

The purpose of the invention is the decrease of the coating roughness and porosity. The process is done in the microarc operation at the current density up to 15 A/dm^2 and the labour voltage of 400-700 V. The decrease of the coating roughness and porosity is attained by anodization in the aqueous solution comprising 1,4-1,6 mass. % of hexametaphosphate, with the application of the pulsate voltage, which is raised up to the effective values within 5-8 min, then is reduced with 10-15% after decreasing the current density with $4-5 \text{ A/dm}^2$ and is removed completely after reducing the current density up to $0,2-0,4 \text{ A/ dm}^2$.

Claims: 1