

Algorithmization of the Procedure for Conversion Coatings Quality Analyzing

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key words

phosphating, quality of phosphate coating, control algorithm

We have considered the algorithmic procedures of the first stage of the phosphate coating quality control algorithm. During the implementation of the procedure, the following are used: a) regulated quality indicators of coatings, which are defined in the relevant regulatory documents (standards) or in technical specifications; b) instrumental methods for quality control of coatings; c) a production schedule that defines the problems that arise when applying phosphate coatings.

At the final step of the first stage of the phosphating quality control algorithm, a document is formed in which the real and regulated indicators of phosphating are recorded, the deviation is identified, and a preliminary conclusion is made about the problem that arises.

The results of the first stage of the analysis of the phosphate coating quality are an array of initial data for the second stage of the algorithm that implements the procedure for finding solutions to the organizational and technological problems of obtaining a phosphate coating.

The proposed procedure for analyzing deviations in the quality of a phosphate coating can be adapted for other types of coatings with the correction of information related to the characteristics of the coating and the technological schedule for its production.

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