

Development of technology for high-speed branding of titanium alloys

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Abstract

© Published under licence by IOP Publishing Ltd. Electrochemical stamping produces an oxide film on the titanium surface, which slows down the stamping process. In this paper, the task was set to develop technological methods that accelerate the process of stamping titanium alloys. Studies have shown that markings obtained from an electrolytes given in the work and according to the regime described in the work are stable, clear, contrasting, different in color from the base metal. The resulting marks have withstood repeated sterilization by boiling in water and a moisture resistance test.

<http://dx.doi.org/10.1088/1757-899X/412/1/012092>

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