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Investigation of the process of plasma-electrolyte formation surface microrelief of cobalt chromium alloy

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Abstract

© Published under licence by IOP Publishing Ltd. The goal is to investigate the possibilities of plasma-electrolytic formation of microrelief for replacement method of sandblasting. We found that with the cathode mode of plasma electrolytic surface treatment, CoCr-alloy has two kinds of structures: "porous" and "reflow". "Reflow" the surface was also covered with tubercles, the size of 200 - 300 nm. Analysis of roughness parameters and surface microrelief showed the possibility of replacing the sandblasting on the plasma-electrolytic treatment.

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