

Aerosol fluxing in electro arc metallization

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Abstract

© Published under licence by IOP Publishing Ltd. The main structural and technological factors of electric arc metallizers, which significantly affect the quality of their operation, are considered. The results of experimental studies on the adhesion strength, porosity, microhardness and comparative wear resistance of coatings obtained by electroarc metallization are presented. Optimal modes of coating with electroarc metallization are determined. It is established that the use of aerosol fluxing during electric arc metallization provides an increase in adhesion-cohesive strength by 25 ··· 30%, an increase in microhardness to 40%, a decrease in porosity by 20 ··· 25%.

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