Of combined electric arc coatings

- **M. Ageev**
- **L. Lopata**
- **T. Smirnova**
- **A. Dudan**
- **A. Lopata**

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Abstract

The paper considers possibilities to increase the wear resistance for parts machines and mechanisms using combined electric arc coatings thanks to nitriding the coatings deposited. The possibility of controlling the properties of surfaces owing to choice with required characteristics electric arc coatings is shown. The influence of spray factors such as the flow rate and pressure of working gases, composition of combustion mixture, spraying distance, dispersion of the spray, properties of wire material, etc. on the properties of the coatings obtained has been investigated. The paper considers the use of pulse ion nitriding of arc-spray EAS (eelectric arc spraying) coatings from wire materials as one of the efficient ways to increase their performance characteristics.

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