عنوان فارسی مقاله:
اثرات بازیخیت در دمای بالا بر روش پوشش پوسته های رسوب شده با سوخت اکسیژن با سرعت بالا WC-Co

عنوان انگلیسی مقاله:
Effects of the High Temperature Annealing on Structure of the High Velocity Oxygen Fuel Deposited WC-Co Coatings

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
CONCLUSIONS

In conclusion effects of the high temperature air annealing on structure and surface morphology of the bulk fragment of the WC-Co roll and WC-Co coatings grown by high velocity oxygen fuel spray deposition were investigated. It was found, that air annealing at 900 °C temperature results in covering of the bulk WC-Co sample by WO₂ layer. No connection between the oxidation of the WC-Co coating and deterioration of the adhesion between the coating and steel substrate as a result of the air annealing was observed. The most resistant to the negative influence of the air annealing coating was the most oxidized as well. It was explained by the formation of the inhibitor oxide layer. No connection between the annealing-induced changes of the surface morphology of the WC-Co coatings and their chemical composition and structure was found. However, changes of the surface morphology similar for all WC-Co coatings as a result of 500°C temperature air annealing were observed.