

عنوان مقاله:

Oxidation behavior of Ni-TiO₂ and effect of SDS on the coating

محل انتشار:

اولین کنگره و نمایشگاه بین المللی علوم و تکنولوژی های نوین (سال: 1397)

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خلاصه مقاله:

Surface modification is very important in the component in industry due to fracture. Fatigue, torsion and bending will be initiated from a surface. Electroplating is one of the way which can modify the surface. In this study Ni-TiO₂ coatings were prepared on an AISI 430 stainless steel substrate by electrocodeposition in Watt's plating bath containing TiO₂ particles. Resistance to oxidation of Ni-TiO₂ was studied after 200h in 800 °C. Results show better oxidation behavior were achieved after 200h in 800 °C while the cyclic oxidation worsen in the presence of SDS. Composite coatings were investigated by scanning electron microscope (SEM) and X-ray systems

کلمات کلیدی:

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