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Title: Effect of surfactant concentration in the electrolyte on the tribological properties of nickel-tungsten carbide composite coatings produced by pulse electro co-deposition

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Highlights

1. Effect of surfactant concentration on the co-deposited WC was investigated
2. In the Ni matrix significantly high hardness was achieved by WC co-deposition
3. Optimum surfactant resulted in obtaining superior wear resistance in the Ni
4. Friction coefficient was decreased by WC co-deposition in the Ni matrix

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