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Title: Erosion-corrosion resistance of electroplated Co-Pd film on 316L stainless steel in a hot sulfuric acid slurry environment

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Highlights

- A Pd-Co alloy film is deposited on 316L stainless steel by electroplating.
- In hot, stirred acid solution with SiO_2 , Pd-Co film shows good erosion-corrosion resistance.
- There is a significant synergistic effect between erosion and corrosion for the tested system.
- At higher stirring speed the erosion effect plays key role in erosion-corrosion process.
- The good erosion-corrosion resistance of Pd-Co film is due mainly to its high hardness.

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