

Studies of reasons for the effective use of lignosulfonates in the electrolysis of zinc

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Abstract

Curves of potentiostatic and polarization for solutions of zinc sulfate (0.25 mol/l) and 0.025 mol/l with the background electrolyte of Na₂SO₄ (0.5 mol/l) in the potential range from -400 to -1400 mV (for Ag/AgCl) are obtained. The calculation of the current exchange on the results of cathode polarization upon receipt of chronopotentialmetric curves was performed. The effect of additives on electrochemical processes of anionic surfactants of lignosulfonate was studied. The possibility of efficient use of lignosulfonate in admixture with the bone glue into the zinc electrolysis process was shown.