

Polymer Chemistry

30th International Conference on

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Materials Chemistry & Science

August 27-28, 2018 | Toronto, Canada

Investigation of electrochemical characteristics of deformable alloys of the system AD31, AD33, AD35, Al h.p. and calculation of activation energy

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The electrochemical characteristics of alloys were studied by a potentiostatic method-the removal of anodic and cathodic polarization curves, and the values of the effective activation energy of the dissolution process of alloys, indicating a diffusion control of the process were determined. It is shown that corrosion of deformable alloys in all investigated solutions proceeds with oxygen depolarization and is limited by the stage of diffusion of dissolved oxygen.

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