

论文

氨基硫脲对锌在氯化铵介质中的缓蚀作用及其吸附行为*

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摘要:

采用失重、腐蚀电位测试、交流阻抗等方法研究了氨基硫脲(TSC)对锌在26%氯化铵介质中的缓蚀作用机理。研究表明,TSC对锌在氯化铵中的腐蚀有较好的抑制作用,基作用机制为几何覆盖效应。TSC在锌表面的吸附近似符合Langmuir等温式。

关键词: 氨基硫脲 氯化铵 锌 缓蚀

INHIBITION EFFECT AND ADSORPTION BEHAVIOR OF THIOSEMICARBAZIDO ON AMMONIUM CHLORIDE SOLUTION

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Abstract:

The corrosion behavior of zinc in ammonium chloride solution with thiosemicarbazido(TSC) was studied by means of corrosion potential measurement,electrochemical impedance spectroscopy and weightloss method.The experimental results showed that TSC had remarkable inhibition effect on the corrosion of zinc in 26% ammonium chloride solution.The inhibition efficiency of the TSC increased with the increase in its concentration up to 0.2g·L⁻¹.The inhibition of TSC for zinc was found to be the geometric blocking effect,and its adsorption isstherm approximately followed Langmuir isotherm equation.

Keywords: thiosemicarbazido ammonium chlorde solution Zinc inhibition

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