

论文

循环阳极极化曲线评价LY12A1合金表面稀土转化膜耐腐蚀性能的研究

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摘要:

提出利用循环阳极极化曲线研究转化膜耐腐蚀性能的方法,介绍了LY12 Al合金表面稀土转化膜的工艺.将稀土转化膜与其它转化膜的耐腐蚀性能进行比较.利用循环阳极极化曲线的“相对环面积”研究转化膜耐腐蚀性能可得出转化膜耐腐蚀规律性.

关键词: 循环阳极极化曲线 耐蚀性

EVALUATION OF CORROSION RESISTANCE OF RARE EARTH METAL (REM) CONVERSION FILMS ON LY12 ALLOY WITH CYCLIC ANODIC POLARIZATION CURVES

Abstract:

A new method for studying corrosion resistance of conversion films was developed with cyclic anodic polarization curves in this paper. Technological process of rare earth metal (REM) conversion films on LY12 alloy was introduced. The corrosion resistance of REM conversion films was examined by salt solution immersion test and cyclic anodic polarization curves. The results obtained from cyclic anodic polarization curves could be consistent with the result of salt solution immersion test when the appositive area of cyclic anodic polarization curves was used to evaluate the corrosion resistance of the conversion films.

Keywords: cyclic anodic polarization curves corrosion resistance

收稿日期 1900-01-01 修回日期 1900-01-01 网络版发布日期 2001-01-25

DOI:

基金项目:

通讯作者: 于兴文 Email:

作者简介:

参考文献:

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