

论文

飞机蒙皮涂层对LY12CZ铝合金腐蚀疲劳寿命的影响

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摘要:

研究了飞机蒙皮涂层对LY12CZ铝合金腐蚀疲劳行为的影响,比较了裸样与涂层试样在空气、3.5%NaCl溶液中的寿命变化规律,记录了自腐蚀电位随循环周次的变化,并通过定量分析,给出了裸样与涂层试样在一定实验条件下的腐蚀疲劳寿命表达式,结果表明涂层使LY12CZ铝合金腐蚀疲劳寿命得到明显提高.

关键词: 飞机蒙皮涂层 LY12CZ铝合金 腐蚀疲劳寿命

INFLUENCE OF COATING OF COVERING AIRPLANE ON CORROSION FATIGUE LIFE OF ALUMINIUM ALLOY LY12CZ

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Abstract:

The effect of coating used to cover airplane on corrosion fatigue behaviour of LY12CZ aluminum alloy has been studied.The corrosion fatigue lives for uncoated and coated specimens in both air and 3.5% NaCl solution were compared,and the evolution of free corrosion potential with cyclic number was measured.The equations of fatigue and corrosion fatigue lives were obtained on some experiment conditions by quantitative analysis.The results showed that the corrosion fatigue life of LY12CZ aluminum alloy was greatly improved by coating.

Keywords: coating of covering airplane LY12CZ aluminum alloy corrosion fatigue life

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