

论文题目 钢铁表面无铬钝化膜设计

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摘 要

本文主要为了研究无铬钝化的配方以及其工艺方案，通过将金属浸入钝化液来使金属表面钝化的方法，是一种工艺方法简单，并且生成的钝化膜均匀而致密的方式。本篇论文主要是关于金属的钝化。并以硫酸铜点滴实验以及电化学测量、盐雾为检测方法。先采用单一因素实验的方法得到性能较优越的配比方案，然后对实验方案进行优化，主要优化对象为钝化液 PH 值，钝化时间以及温度。钝化得到表面均匀，且为无色的钝化膜，最后对优化后的实验方案进行盐雾实验、电化学实验等。最后得到相对优良的钝化方案及工艺。

关键词：钢铁；钝化；耐蚀；钝化层

Abstract

In order to study the formulation of chromium-free passivation and its technological scheme, the passivation method of metal surface by immersing metal into passivation solution is simple and the passivation film is uniform and compact. This paper is mainly about passivation, drip experiments and electrochemical measurements. First, a single factor experiment method is used to obtain the better ratio scheme, then the experimental scheme is optimized. The main optimization objects are the PH value of passivation solution, passivation time and temperature. The passivated film has a uniform surface and is colorless. Finally, salt spray and electrochemical experiments are carried out on the optimized experimental scheme. Finally, a relatively good passivation scheme and process were obtained.

Keywords: Steel; passivation; corrosion resistance; passivation layer

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