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用户名 密码 腐蚀科学与防护技术 **Corrosion Science and Protection Techonology** 期刊介绍 🐷 读者服务 论文 不同热处理条件下双相钢的磨损腐蚀 刘景军,林玉珍,雍兴跃等 北京化工大学 北京 100029 摘要: 采用失重法、极化曲线法对不同热处理条件下双相钢 在流动的3 5% NaCI中性盐水中的磨损腐蚀规律及机理进行了探讨.结果表明,随着流速的 增 大,不同热处理的双相钢腐蚀速度均增大,并存在一个使腐蚀速度急剧上升的临界流速值 ; 流速相同时,经1050℃固溶后500℃2 h时效强化的双相 钢耐蚀性最好.双相钢的腐蚀主要 受阳极的自钝化控制. 关键词: 双相钢 3 5% NaCI中性盐水 磨损腐蚀 机理 EROSION CORROSION OF DUPLEX STAINLESS STEEL WITH DIFFERENT HEAT TREATMENTS IN FLOWING 3 5% NaCI SOLUTION JingjunLiu Abstract: Influence of heat treatments on the erosion corrosio n behavior of OCr25Ni6Mo3CuN duplex stainless steel was investigated in flowing 3 5% NaCl solution by using methods of weight loss and polarization curves The experimental results showed that the corrosion rates increase with increasin g flowing velocity, and there is a critical flow velocity above which the corrosi on rates are speeded up abruptly and the duplex stainless steels suffered from s erious erosion corrosion. However, the erosion corrosion n resistance can be improved by proper heat treatments. It was found that the cor rosion rate of duplex stainless steel annealed at 1050  $^{\circ}\mathrm{C}$  and aged for 2hr at 500  $^{\circ}\mathrm{C}$  was the lowest among the heat treated ones. Further study indicated that erosi on corrosion of duplex stainless steels is mainly controlled by passivation proc ess in the anode. Keywords: duplex stainless steel flowing 3 5% NaCl solution ero sion corrosion mechanism [HK] 收稿日期 1900-01-01 修回日期 1900-01-01 网络版发布日期 2002-05-25 DOI: 基金项目: 通讯作者: 刘景军 Email: Liujingjun@mail.buct.edu.cn 作者简介: 参考文献: 本刊中的类似文章 1. 雍兴跃, 刘景军, 林玉珍等..双相钢在流动3.5aCl溶液中的磨损腐蚀[J]. 腐蚀科学与防护技术, 1999,11(5): 295-299 文章评论 反馈人 邮箱地址 反馈标题 验证码 6906

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