航空学报
ACTA AERONAUTICA ET ASTRONAUTICA SINICA
ISSN 1000-6893
CN 11-1929/V

航空学报 » 1994, Vol. 15 » Issue (2) :250-253 DOI:

渗碳零件表面碳浓度精确控制的探讨

吴兴文, 席守谋, 杨思品, 曾祥模

西北工业大学401教研室,西安,710072

INVESTIGATION OF THE ACCURATE CONTROL ABOUTSURFACE CARBON CONCENTRATION OF CARBURISING PART

Wu Xinwen, Xi Shoumou, Yang Shipin, Zhen Xiangmo

Faculty 401 of Northwestern Polvtechnical University,Xi'an,710072

摘要 | 参考文献 | 相关文章

摘要 通过对6种常用渗碳材料在930℃下进行渗碳试验,建立了表面碳浓度控制模型,渗碳时间延长时,表面碳浓度按抛物线规律上升。钢种、碳势不同,表面碳浓度也不同,研究了表面碳浓度与炉气碳势达到的渗碳平衡时间。

关键词： 表面扩散 渗碳势 化学平衡

Abstract： arburising experiments were conducted for six sorts of carburising materials in com-mon use at temperature 930℃,and established the control model of surface carbon concentration. The usual form is Cp=Cs=C0- Along with the extending of carburising time,the surface carbon concentration was going up in the parabolic law. When the carburising material,the carbon potential changes,the two factors C_0 and K are changed,the surfaee car-bon concentration is affected. In addition,the carburising equilibrium time (the time of surface carbon concentration) was studied.The carburising equilibrium time had mainly something to do with carburising material and carbon potential.

Keywords： surface diffusion carburizing chemical equilibrium

Received 1991-10-22; published 1994-02-25

Service
把本文推荐给朋友
加入我的书架
加入引用管理器
Email Alert
RSS
作者相关文章
吴兴文
席守谋
杨思品
曾祥模

引用本文:

吴兴文;席守谋;杨思品;曾祥模. 渗碳零件表面碳浓度精确控制的探讨[J]. 航空学报, 1994, 15(2): 250-253.

Wu Xinwen;Xi Shoumou;Yang Shipin;Zhen Xiangmo. INVESTIGATION OF THE ACCURATE CONTROL ABOUTSURFACE CARBON CONCENTRATION OF CARBURISING PART[J]. Acta Aeronautica et Astronautica Sinica, 1994, 15(2): 250-253.