首页 | 关于本刊 | 编 委 会 | 最新录用 | 过刊浏览 | 期刊征订 | 下载中心 | 广告服务 | 博客 | 论坛 | 联系我们 | English

















航空学报 » 1988, Vol. 9 » Issue (5):294-298 DOI:

最新目录 | 下期目录 | 过刊浏览 | 高级检索

◀◀ 前一篇 | 后一篇 ▶▶

TC1钛合金透射电镜组织研究

何明1, 王宗贞1, 王惠芳2, 李玉秀2

1. 西北工业大学; 2. 平坝红湖机械厂

A STUDY OF MICROSTRUCTURE OF TC 1 ALLOY BY TRANSMISS ON ELECTRON MICROSCOPY

He Ming¹, Wang Zongzhen¹

Northwestern Polytechnical University; 2. Honghu Machinery Factory, Pingba

摘要

参考文献

相关文章

Download: PDF (1297KB) HTML OKB Export: BibTeX or EndNote (RIS)

Supporting Info

摘要 用透射电镜研究TC 1 合金冷轧薄板在退火过程中精细组织的变化,揭示了位错组态与机械性能的关系。 试验用料为厚0.8mm的TC 1 钛合 金冷轧板村,变形程度为33%,化学成分见表1。试验用退火温度见表2,退火保温时间为45min,采用普通电炉加热。退火后测定室温抗拉性能。

关键词:

Abstract: The effect of annealing temperature on microstructures of cold rolled TO alloy sheet has been investigated by transmission electron microscopy, and tensile properties have been determined after annealing at different temperatures. Experimental results show that elongated cells were formed in a phase of cold rolled TCI alloy sheet, the boundaries of cells consist of high density tangled dislocations when the annealing temperature rises from 773K to 923K. the dislocation density decreases; at the same time, tangled dislocations in cell boundaries change their combination forms gradually. When the annealing temperature rises to 823K, polygonization occurs) at this time, strength decreases, but ductility does not increase. It seems that polygonization is unfavourable tor ductility. When annealing is in the temperature range of 873K to 923K, dislocation arrays and net forms apoear, then ductility increases significantly. An annealing temperature of 853 ± 10 K is recommended for cold roll ed TCI titanium alloy sheet.

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

Keywords:

Received 1987-06-27;

引用本文:

何明;王宗贞;王惠芳;李玉秀. TC1钛合金透射电镜组织研究[J]. 航空学报, 1988, 9(5): 294-298.

He Ming; Wang Zongzhen. A STUDY OF MICROSTRUCTURE OF TC 1 ALLOY BY TRANSMISS ON ELECTRON MICROSCOPY[J]. Acta Aeronautica et Astronautica Sinica, 1988, 9(5): 294-298.

Copyright 2010 by 航空学报