

Nb-1Zr与1Cr18Ni9Ti高温真空钎焊工艺研究

齐立君, 蔡洪涛

中国原子能科学研究院 反应堆工程研究设计所, 北京 102413

收稿日期 2007-11-15 修回日期 2007-12-14 网络版发布日期: 2008-1-20

摘要 采用BNi-5钎料, 对Nb-1Zr与1Cr18Ni9Ti高温真空钎焊工艺进行试验研究, 对试验钎焊的接头进行了密封性能检验、抗热冲击性能试验、接头界面区微观分析以及钎缝拉伸强度试验。通过分析试验结果, 确定了Nb-1Zr与1Cr18Ni9Ti高温真空钎焊工艺规范参数。

关键词 [Nb-1Zr](#); [1Cr18Ni9Ti](#); [真空钎焊](#)

分类号 [TL352](#)

Study on Technology of High Temperature Brazing of Nb-1Zr and 1Cr18Ni9Ti in Vacuum

Qi Li-jun, Cai Hong-tao

China Institute of Atomic Energy, P.O. Box 275-51, Beijing 102413, China

Abstract In order to joint Nb-1Zr alloy and 1Cr18Ni9Ti stainless steel, a series of brazing experiments with different technology parameters of BNi-5 brazing filler metal were carried out. After that, properties of brazing joint, including vacuum seal test, bear thermal shock test, microstructure of brazing seam and tensile strength test of brazing joint, were examined. The testing results show that brazing joint with BNi-5 filler metal has fine properties. At last, reasonable technology parameters were provided.

Key words [Nb-1Zr](#) _ [1Cr18Ni9Ti](#) _ [brazing](#) _ [in](#) _ [vacuum](#)

DOI

扩展功能

本文信息

▶ [Supporting info](#)

▶ [\[PDF全文\]\(1263KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“Nb-1Zr; 1Cr18Ni9Ti; 真空钎焊”的 相关文章](#)

▶ [本文作者相关文章](#)

· [齐立君](#)

· [蔡洪涛](#)

通讯作者