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Si_3N_4 -钢铁钎接用银-铜-钛钎料及其钎接工艺^①

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摘要: 研究了合金型Ag-Cu-Ti钎料成分对 Si_3N_4 浸润性及钎接温度对该系钎料钎接 Si_3N_4 -钢铁的钎接强度的影响。用该工艺进行 Si_3N_4 电热塞中 Si_3N_4 发热体与金属外套的钎接, 经综合测试可知满足 Si_3N_4 电热塞技术要求。

关键字: Ag-Cu-Ti钎料 浸润性 Si_3N_4 钎接

Ag-Cu-Ti BRAZE ALLOY USED FOR Si_3N_4 -STEEL JOINTING AND JOINT PROCESS

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Abstract: The effect of composition of Ag-Cu-Ti braze alloy to wettability to the Si_3N_4 and the effect of brazing temperature to the strength of Si_3N_4 -steel joint was studied. The best composition of brazing alloy and brazing process were determined. The Si_3N_4 glow plug joined by this brazing alloy fits the standard of Si_3N_4 glow plug.

Key words: Ag-Cu-Ti braze alloy wettability Si_3N_4 brazing

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