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Al-Si合金几种变质剂变质作用差异的探讨

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DIFFERENCE BETWEEN EFFECTS OF MODIFICATION WITH SOME ELEMENTS ON Al-Si ALLOY

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摘要

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摘要

关键词: 铝合金 共晶 变质 硅 表面分析

Abstract: There exist Marked differences between effects of modification with some elements on eutectic Al-Si alloys. In this paper, (111)si of single crystal silicon seeds immersed into melts of Al-22wt% Si alloy treated with Na, Sr, rare-earths and Sb were analyzed by XPS and AES in order to detect the adsorbability of these elements. Results show that Na and Sr Can be adsorbed on (111)si but rare-earths and Sb can not be. Modifying agents are then divided into two types: adsorbable and non-adsorbable, and different modification mechanisms of the two types are suggested.

Keywords: aluminum alloy eutectic modification silicon surface analysis

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