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论文

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熔体热历史对快凝铝铁基金属显微组织不均匀性的影响

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EFFECT OF THERMAL HISTORY IN MELT ON THE INHOMOGENEITY OF MICROSTRUCTURE IN RS Al-Fe BASED ALLOY

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摘要

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摘要 研究合金熔体热历史对快凝 Al-Fe 基金属显微组织不均匀性的影响。结果表明: 在熔体温度为 1250~1350℃, 保温时间为 10 min 的热历史条件下, 快凝显微组织中可得到在过饱和固溶体 α -Al 基体上均匀分布着 20~40 nm 的 $\text{Al}_{12}(\text{Fe}, \text{V})_3\text{Si}$ 弥散相组织。

关键词: 熔体 快速固化 铝合金 微观结构

Abstract: Effect of thermal history in melt on inhomogeneity of microstructure in RS Al-Fe based alloy is studied. It is shown that the microstructure of well distributed 20~40nm $\text{Al}_{12}(\text{Fe}, \text{V})_3\text{Si}$ dispersion phase on a supersaturated-Al solid solution matrix is obtained at melt temperature 1250~1350℃ for 10 minutes in RS microstructure.

Keywords: melts rapid solidification aluminum alloys microstructure

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