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高温合金过滤中的界面问题研究

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STUDY OF INTERFACES IN THE FILTRATION OF SUPERALLOYS

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摘要

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摘要

过滤器吸附固态夹杂须满足两个条件:一是控制熔体的流动状态,使固态夹杂与过滤器相接触;二是熔体、过滤器及固态夹杂之间满足一定的界面能条件,使固态夹杂被过滤器吸附捕获,然后在高温下依靠热能将固态夹杂与过滤器烧结在一起。因此过滤器去除固态夹杂存在着三种机制:机械拦截机制、流体动力学机制及热力学机制。

关键词: 高温合金 过滤 界面

Abstract:

One of the important mechanisms by which a filter can remove particles from a melt is its surface adsorption effect. A thermo-dynamical criterion is presented on which particles are adsorbed spontaneously, according to the relative interfacial energies. Factors which affect the driving force of particle adsorption are discussed. The driving force of particle removal in the filtration of a superalloy is estimated.

Keywords: superalloy filtration interface

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