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## 熔盐电解法制备Mg-Li合金的研究进展

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浏览次数:

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**摘要** Mg-Li合金是最具代表性的超轻高比强合金,在宇航、汽车、电子等领域有广阔的应用前景。熔盐电解法制备Mg-Li合金作为一种新工艺、新方法,具备可以通过调节电化学参数控制合金相、简化生产设备及流程、易于大规模生产等优点,成为近年来研究制备Mg-Li合金的热点之一。主要简述了熔盐电解法制备Mg-Li合金的电极过程及Mg-Li合金相,并针对熔盐电解法制备Mg-Li合金的电化学机理、Mg-Li合金中Li含量的控制、电解装置的改进和最优电解条件等研究进行了概述。

**关键词** 熔盐 电解 Mg-Li合金

## Research Developments in Mg-Li Alloy Prepared by Molten Salt Electrolysis

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**Abstract** Mg-Li alloy is the most representative alloy which shows low density and high specific stiffness. These alloys are widely applied in aircraft, motorcar, electronic industry, and so on. Mg-Li alloy is prepared by a novel technique and method owing to molten salt electrolysis, which has the advantages of controlling the alloy phases by regulating electrochemical parameters, simplifying the production equipment and processes, being easy for mass production and so on. The preparation method of Mg-Li alloy has attracted much attention in recent years. In this paper, the electrode process and Mg-Li alloy phases in the molten salt electrolysis process is briefly introduced, the electrochemical mechanism of Mg-Li alloy prepared by molten salt electrolysis, the control of Li content in Mg-Li alloy, the improvement of electrolytic devices and optimal electrolytic conditions are also reviewed.

**Key words** molten salt, electrolysis, Mg-Li alloy

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