

三元亞共晶填充金屬之半固態溫度對無氧銅真空硬鐸研究

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摘要

無氧銅 (Oxygen-free copper) 為電動機 (Electric motor) 的轉子 (Rotor) 主要結構材料之一。由於，銅轉子接合的溫度過高，電磁鋼片 (Electrical steels) 會產生晶粒成長而造成鐵損增加，導致能源轉換效率降低。因此，本研究以低溫之半固態真空硬鐸技術來完成無氧銅間的精密接合，又能保持高的能源轉換效率。實驗採Cu-15Ag-5P為填充金屬，持溫溫度以填充金屬之液-固相共存的673 ~ 793 及液相的823 、真空度

關鍵詞：無氧銅、真空硬鐸

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