

纳米二氧化硅复合玻璃棉隔板

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摘要: 介绍了纳米二氧化硅复合玻璃棉隔板的研制情况, 组装试验电池, 进行了电池性能测试。结果表明: 用纳米 SiO₂ 复合隔板组装的试验电池, 其 2 h 率容量比 AGM 隔板组装的电池提高约 5%, 两种电池的气体复合效率和高倍率充放电循环寿命基本一致。

关键词: 铅酸蓄电池; 纳米 SiO₂; 隔板

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The microglass fiber compound separator filled with nanometer SiO₂

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Abstract: The microglass fiber compound separator filled with nanometer SiO₂ was researched. The battery with compound separator was assembled and electrical performance was tested. The results showed that the 2 h rate discharge capacity of battery with the separator was about 5% more than that of battery with AGM, the recombination efficiency of O₂ and the high rate charge-discharge cycle life of the tested batteries with the separator were similar to that with AGM.

Key words: lead acid battery; nanometer SiO₂; separator