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论文

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TiFe_{0.86}Cr_{0.1}/NaM复合贮氢材料的合成与性质

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SYNTHESIS AND PROPERTIES OF A COMPLEX HYDROGEN STORAGE MATERIAL-TiFe_{0.86}Cr_{0.1}/NaM

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摘要

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摘要 利用蒸汽相法制备沸石技术合成TiFe_{0.86}Cr_{0.1}/NaM复合贮氢材料的各种条件,找到了较适宜的碱度SiO₂/Al₂O₃以及合金与沸石。研究了合成条件对贮氢容量的影响,结果表明,沸石为单一晶相合成粒度不低于7.4 μm为佳。同时,该材料亦表现出良好的抗O₂、CO₂中毒特性。

关键词: 钛合金 合成 制氢—储存

Abstract: The synthesis conditions for preparing a complex hydrogen storage material-TiFe_{0.86}Cr_{0.1}/NaM have been studied by employing the vapour phase method. The more suitable conditions of Na₂O/(Na₂+Al₂O₃+SiO₂), SiO₂/Al₂O₃ and alloy/Zeolites have been found in the research. The influence of the synthesis conditions on the hydrogen-storage capacity has been examined. The results indicate that it is better that zeolite is a pure phase and the alloy size is larger than 7.4 μm. And TiFe_{0.86}Cr_{0.1}/NaM possesses a good antioxygen and anticarbon monoxide property.

Keywords: titanium alloys synthesis(chemistry) hydrogen production-storage

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