

Abstract

Process for producing a positive electrode for lithium secondary batteries

5 A lithium-manganese oxide $\text{Li}_x\text{Mn}_2\text{O}_4$ having a spinel structure is prepared as cathode material for lithium secondary batteries by mixing manganese dioxide with lithium formate and/or lithium acetate (HCOOLi , CH_3OOLi) and subsequently heating the mixture at, preferably, 600°C to 750°C for 10 to 100 hours. The mixture components contain manganese and lithium in a molar ratio of
10 $\text{Mn:Li} = 2:x$, where $0.5 < x < 1.5$. The final product is extremely finely crystalline and is notable for good cycle stability.

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