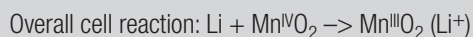
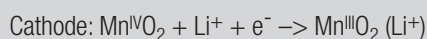
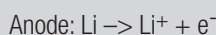


Chemistry and Construction

Chemistry of RENATA Li/MnO₂ cells

Renata CR lithium coin cells use a non-aqueous, aprotic organic electrolyte containing lithium perchlorate in a mixture of organic solvents. The proprietary formulation of the active cathode material consists of a heat-treated mixture of electrolytic MnO₂ and other specific components, yielding an outstanding volume/capacity ratio for this Li/MnO₂ system.

The cell reactions for this electrochemical system are:



Manganese dioxide is reduced from the tetravalent to the trivalent state by lithium.

The separator system in Renata coin cells is especially designed to ensure the best performance in terms of mechanical strength, ion permeability over a wide temperature range (-40 to +100°C) and a low self-discharge rate. Additional care in cell design also minimizes self-discharge rate.

The combination of these several features provides the best performance for long life applications (back-up etc.)

Construction of RENATA Li/MnO₂ cells

