

LITHIUM BASED BATTERY
ABSTRACT

A lithium based battery includes a cell structure
5 group formed by stacking unit cells each including a
positive electrode, a negative electrode, and a separator
interposed therebetween, or formed by repeatedly folding or
winding an integral body of the unit cells; a battery
container for containing the cell structure group; and an
10 electrolyte, which is poured in the battery container after
the cell structure group is contained in the battery
container. The outer peripheral surface of the battery
container is covered with an ion impermeable and extensible
high polymer sheet having a tensile elongation percentage of
15 1 % or more. With this configuration, even if there happens
such a severe accident that nail pieces the battery or the
battery is crashed, it is possible to prevent a large short-
circuit current from flowing between the positive and
negative electrodes, and hence to ensure a higher safety of
20 the battery.

Figure 1