

ABSTRACT

A nonaqueous electrolyte secondary battery is made up
5 of a positive electrode and a negative electrode which are
composed of a lithium ion-occluding and releasing material
and a binder polymer, at least one separator for separating
the positive and negative electrodes, and a nonaqueous
electrolyte which is composed of a lithium salt and an
10 organic solvent. The electrolyte includes also a substance
which is oxidized at the positive electrode at a cell voltage
of from 4.1 V to 5.2 V, and which provokes an oxidation
reaction that differs from the lithium-releasing reaction.
The presence of this substance improves the overcharge
15 characteristics and safety of the nonaqueous electrolyte
secondary battery.



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