

ABSTRACT

A battery case whose inner surface has a surface-treatment layer with a low internal resistance and whose outer surface has a surface treatment layer which has a high quality and is excellent in continuous formability, and a surface-treated steel sheet which can be suitably applied to the manufacture of a battery case. The battery case has a nickel-phosphorus alloy layer on its inner surface and, in some cases, further a nickel-cobalt alloy layer under the nickel-phosphorus layer. It is preferable that a nickel-cobalt alloy layer is formed on the outer surface of the battery case. A battery manufactured by using such a case has an excellent battery performance.