

Abstract

STAINLESS STEEL FOIL FOR BATTERY OUTER PACKAGING

5 Provided is a battery armoring stainless steel foil
which, without the need for a special treatment such as
corona discharge, has excellent adhesiveness to resin after
being thermally shocked and after being immersed in an
electrolyte solution. A battery armoring stainless steel foil (1)
10 includes an oxide film (1a), having a thickness of not less
than 2 nm, which contains (i) one or more metallic elements,
existing as a hydroxide, in an amount of not less than 35 mol
percent and (ii) SiO₂ in an amount of not more than 40 mol
percent, the battery armoring stainless steel foil (1) having
15 an arithmetic mean roughness Ra of less than 0.1 μm but not
less than 0.02 μm in a direction orthogonal to a direction in
which the battery armoring stainless steel foil (1) has been
rolled.

20 FIG. 1