

ABSTRACT
COPPER FOIL FOR NEGATIVE ELECTRODE CURRENT COLLECTOR
OF SECONDARY BATTERY

[Abstract]

Provided is a copper foil for a negative electrode current collector of secondary battery, wherein: roughening treatment is performed to both front and rear surfaces of a rolled copper alloy foil; an average surface roughness R_a of both the front and rear surfaces based on laser microscope measurement is 0.04 to 0.20 μm ; and the ratio of surface area factor is within a range of $1.0 < (C)/(C') < 1.1$, when a three-dimensional surface area upon measuring the roughened surfaces with a laser microscope is (A), a two-dimensional area as a projected area upon measuring the three-dimensional surface area is (B), and a calculated value of $(A)/(B)$ is expressed in (C), and when a three-dimensional surface area upon measuring the surfaces of a non-roughened rolled copper or copper alloy foil with a laser microscope is (A'), a two-dimensional area as a projected area upon measuring the three-dimensional surface area is (B'), and a calculated value of $(A')/(B')$ is expressed in (C'). This invention aims to provide a copper foil for a negative electrode current collector of a secondary battery in which the adhesiveness of the secondary battery active material is superior, and which can reduce the variation in the area weight of the secondary battery active material, and has superior weather resistance and thermal resistance.

Fig. 1