

ABSTRACT INVENTION

The present invention provides a substrate for a secondary battery electrode having excellent bonding strength of a sintered porous metal to a ground metal plate so that the sintered porous metal does not peel off from the ground metal plate when the substrate for a secondary battery electrode is rolled up and fixed into a cylindrical battery.

For this purpose, a layer of metal having a melting point lower than that of the ground plate is formed at least on one side of the ground plate, and a porous layer is formed by forming a layer of powdered metal having a melting point higher than that of the layer of metal on the layer of metal and sintering the powdered metal at a temperature not less than the melting temperature of the layer of metal and not more than those of the ground plate and the powdered metal. Also, at least one side of the ground plate is boronized, and a porous layer is formed by forming a layer of powdered metal which is eutectically alloyed with boron on the boronized layer, and by sintering the powdered eutectic alloy at a temperature not less than the melting point of the eutectic alloy and not less than that of the ground plate and the powdered eutectic alloy.