

US2004029006A1 Electrodeposited copper foil and electrodeposited copper foil for secondary battery collector

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Abstract

An electrodeposited copper foil having an extremely smooth surface roughness at the deposition surface, having an extremely fine crystal structure, and yet not having too high an ordinary temperature tensile strength, superior in elongation, maintaining a stable strength without softening by heat even after heat treatment, and having a high elongation rate even in a high temperature atmosphere. The electrodeposited copper foil has a surface roughness Rz at a deposition surface at ordinary temperature smaller than 2.5 μm in terms of 10-point average roughness Rz, has a minimum distance between peaks of a base foil peak of at least 5 μm, has an ordinary temperature tensile strength of not more than 40 kg/mm<sup>2</sup>, and has a drop in ordinary temperature tensile strength after heat treatment at 130° C. for 15 hours of less than 15%. Also, copper foil for a secondary battery collector using that foil.