

Abstract

Substrate for a perpendicular magnetic recording medium, a
perpendicular magnetic recording medium, and manufacturing
5 methods therefor

A substrate for a perpendicular magnetic recording medium
according to the present invention comprises a nonmagnetic base 1
made of Al-Mg alloy or the like. A soft magnetic underlayer is formed
10 of a Ni-P alloy containing phosphorus in a range of 0.5 wt% to 6 wt%
formed by an electroless plating method on the nonmagnetic base 1.
The thickness of the soft magnetic underlayer 3 is thicker than or
equal to 3 μm to ensure hardness of the substrate surface. The
substrate functions as a soft magnetic backing layer even when heat
15 treatment is not executed.

Selected drawing Figure 1