

ABSTRACT OF THE DISCLOSURE

MANUFACTURING METHOD FOR PERPENDICULAR MAGNETIC RECORDING MEDIUM

The present invention provides a manufacturing method for a magnetic recording medium with which the anisotropic magnetic field (H_k) of an underlayer is improved, spike noise generated in the soft magnetic underlayer is suppressed, and the signal-to-noise ratio (SNR) is improved without employing a special layer configuration and without the need for complicated and expensive processing. The method comprises the steps of forming a soft magnetic underlayer by laminating a soft magnetic lower underlayer, a non-magnetic metal layer, and a soft magnetic upper underlayer in succession on a non-magnetic substrate, and forming a perpendicular magnetic recording layer on the soft magnetic underlayer. After forming the non-magnetic metal layer, a surface thereof is exposed to a gas containing between 2 and 100at% oxygen.

Selected Drawing: Fig. 1