

ABSTRACT

PROTECTIVE FILM, AND MAGNETIC RECORDING MEDIUM HAVING PROTECTIVE FILM

The present invention simultaneously accomplishes reduction in film thickness of a protective film, improvement of the durability and corrosion resistance of the protective film, and improvement of the bonding strength of the surface of the protective film to a lubricating film. The present invention further provides a magnetic recording medium that has the protective film and excellent electromagnetic conversion characteristics. A protective film for a magnetic recording medium is characterized in containing fluorine and nitrogen. A method for producing a protective film for a magnetic recording medium has a step of forming the protective film on a stacked body containing a substrate and a metal film layer formed on the substrate, and plasma-processing the protective film in a fluorine-containing gas and a nitrogen-containing gas.

No Suitable Figure for Publication