ABSTRACT

The present invention provides a thin film for a reflection film or for a semi-transparent reflection film, which has at least one silver compound phase of nitride, oxide, complex oxide, nitroxide, carbide, sulfide, chloride, silicide, fluoride, boride, hydride, phosphide, selenide and telluride of silver, dispersed in a matrix formed of silver. The thin film according to the present invention keeps its reflectance without significant loss even after a long period of use, and can prolong the life of various devices which comprises the thin film as a reflection film, such as an optical recording medium and a display. The thin film can be also applied to a semi-reflective/semi-transparent film used in the optical recording medium.