

ABSTRACT

METHOD FOR MANUFACTURING GLASS SUBSTRATE FOR MAGNETIC DISK
AND METHOD FOR MANUFACTURING MAGNETIC DISK

The present invention provides a method for manufacturing a glass substrate for a magnetic disk that enables grinding processing with fixed abrasive grains without a decrease of the grinding rate and that can manufacture a high quality glass substrate at low cost. The present invention is a method for manufacturing a glass substrate for a magnetic disk, including a grinding step of grinding a main surface of a glass substrate using a lubricant and a surface plate that has a grinding surface provided with fixed abrasive grains containing diamond particles. In the grinding step, for example, by adding Al_2O_3 , Al^{3+} is allowed to be contained in the lubricant that is supplied to the surface on which grinding processing is performed of the glass substrate. The lubricant has an Al^{3+} content preferably in a range of 0.05 g/L to 1.0 g/L.

Fig. 2