

Abstract

GLASS SUBSTRATE FOR MAGNETIC DISK
AND
MANUFACTURING METHOD OF THE SAME

A glass substrate for a magnetic disk of the invention is a disk-shaped glass substrate for a magnetic disk where the substrate has a main surface and end face and is subjected to chemical reinforcement treatment, and is characterized in that the penetration length in the uppermost-portion stress layer on the main surface is $49.1\ \mu\text{m}$ or less, and that assuming that an angle between the main surface and compressive stress in the stress profile by a Babinet compensator method is θ , a value y of $\{12 \cdot t \cdot \ln(\tan \theta) + (49.1/t)\}$ is the penetration length in the uppermost-portion stress layer or less.

Figure 1