## CLAIMS

1. A glass for a magnetic recording medium substrate comprised of an oxide glass comprising, as converted based on the oxide, denoted as molar percentages:

$SiO_2$ 60 to 75 percent,

$Al_2O_3$ 1 to 15 percent,

$Li_2O$ 5 to 10 percent,

$Na_2O$ 8 to 15 percent,

$P_2O_5$ 0 percent, and

$K_2O$ 0 to 5 percent,

wherein a total content of $Li_2O$, $Na_2O$, and $K_2O$ is 25 molar percent or lower;

wherein the total amount of MgO, CaO, SrO or BaO is in a range of 0.1 to 10 molar percent,

wherein a total quantity of Sn oxide and Ce oxide is in a range of 0.5 mass percent to 1.5 mass percent based on the total amount of the glass components, and

wherein the ratio of the content of Sn oxide to the total content Sn oxide and Ce oxide (content of Sn oxide/(content of Sn oxide+content of Ce oxide)) is 0.45 to 0.85, an Sb oxide content is in a range of 0 to 0.1 percent, and the glass comprises no As or F.

2. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass does not comprises Sb.

3. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass comprises, denoted as molar percentages:

MgO 0 to 10 percent,

CaO 0 to 10 percent,

SrO 0 to 5 percent, and

BaO 0 to 5 percent.

4. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass comprises 0.1 to 5 molar percent of $ZrO_2$, $TiO_2$, $La_2O_3$, $Nb_2O_5$, $Ta_2O_5$, and $HfO_2$ in total.

5. The glass for a magnetic recording medium substrate according to claim 1, wherein the total content of $SiO_2$ and $Al_2O_3$ is 65 molar percent or greater, and the glass has a viscous property such that the viscosity at 1,400° C. is $10^3$ dPa·s or lower.

6. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass comprises, denoted as molar percentages:

$SiO_2$ 66 to 70 percent,

$Al_2O_3$ 7 to 12 percent

(wherein the total content of $SiO_2$ and $Al_2O_3$ is 75 percent or greater),

$Li_2O$ 5 to 10 percent,

$Na_2O$ 8 to 13 percent,

$K_2O$ 0.1 to 2 percent

(wherein the total content of $Li_2O$, $Na_2O$, and $K_2O$ is 15 to 22 percent),

MgO 0.1 to 5 percent,

CaO 0.1 to 5 percent,

SrO and BaO in total 0 to 1 percent,

$ZrO_2$ 0.1 to 2 percent,

$B_2O_3$ 0 to 1 percent, and

ZnO 0 to 1 percent.

7. The glass for a magnetic recording medium substrate according to claim 1 wherein the glass comprises, denoted as molar percentages:

$SiO_2$ 66 to 70 percent,

$Al_2O_3$ 5 to 12 percent,

$Li_2O$ 5 to 10 percent,

$Na_2O$ 8 to 13 percent,

$K_2O$ 0.1 to 2 percent

(wherein the total content of $Li_2O$, $Na_2O$, and $K_2O$ is 18 to 22 percent),

MgO and CaO in total 0 to 5 percent,

SrO and BaO in total 0 to 5 percent,

$ZrO_2$, $TiO_2$, $La_2O_3$, $Nb_2O_5$, $Ta_2O_5$, and $HfO_2$ in total 0.1 to 5 percent,

$B_2O_3$ 0 to 3 percent,

ZnO 0 to 1 percent, and

$P_2O_5$ 0 percent.

8. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass exhibits an acid resistant property such that the etching rate when immersed in a 0.5 volume percent hydrogenfluosilicic acid aqueous solution maintained at 50° C. is 3.0 nm/minute or less and an alkali resistant property such that the etching rate when immersed in a 1 mass percent potassium hydroxide aqueous solution maintained at 50° C. is 0.1 nm/minute or less.

9. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass contains 2 pieces/kg or less of residual bubbles.

10. The glass for a magnetic recording medium substrate according to claim 1, wherein the ratio of the $ZrO_2$ content to the total content of $ZrO_2$, $TiO_2$, $La_2O_3$, $Nb_2O_5$, $Ta_2O_5$, and $HfO_2$ ($ZrO_2/(ZrO_2+TiO_2+La_2O_3+Nb_2O_5+Ta_2O_5+HfO_2)$) is 0.1 to 1.

11. The glass for a magnetic recording medium substrate according to claim 1, wherein the glass has been subjected to a chemical strengthening treatment.

12. A magnetic recording medium substrate comprised of the glass according to claim 1.

13. The magnetic recording medium substrate according to claim 12, wherein roughness Ra of a main surface of the substrate is less than 0.25 nm.

14. The magnetic recording medium substrate according to claim 13, wherein the substrate exhibits a bending strength of 10 kg or greater.

15. The magnetic recording medium substrate of claim 13, wherein the substrate has a disk like shape and a thickness of 1 mm or less.

16. A magnetic recording medium having an information recording layer on the magnetic recording medium substrate according to claim 12.

17. The magnetic recording medium according to claim 16, suited to a vertical magnetic recording method.

18. The magnetic recording medium substrate according to claim 12, wherein the glass substrate does not contain residual bubbles.

19. A glass for a magnetic recording medium substrate comprised of an oxide glass comprising, as converted based on the oxide, denoted as molar percentages:

$SiO_2$ 60 to 75 percent,
$Al_2O_3$ 1 to 15 percent,
$Li_2O$ 5 to 10 percent,
$Na_2O$ 8 to 15 percent,
$P_2O_5$ 0 percent, and
$K_2O$ 0 to 5 percent.

wherein a total content of $Li_2O$, $Na_2O$, and $K_2O$ is 25 molar percent or lower;

wherein the total amount of MgO, CaO, SrO or BaO is in a range of 0.1 to 10 molar percent,

wherein a total quantity of Sn oxide and Ce oxide is 0.5 mass percent to 1.5 mass percent based on the total amount of the glass components,

wherein the ratio of the content of Sn oxide to the total content Sn oxide and Ce oxide (content of Sn oxide/(content of Sn oxide+content of Ce oxide)) is within a range sufficient for rendering a content of residual bubbles in the glass 2 pieces/kg or less,

wherein an Sb oxide content is in a range of 0 to 0.1 percent, and

wherein the glass comprises no As or F.

**20**. The glass for a magnetic recording medium substrate according to claim **19**, wherein the ratio of the content of Sn oxide to the total content Sn oxide and Ce oxide is in a range of from about 0.45 to 0.85.

**21**. A magnetic recording medium substrate comprised of the glass according to claim **19**.

**22**. The magnetic recording medium substrate according to claim **21**, wherein the substrate exhibits a bending strength of 20 kg or greater.

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