CLAIMS

1. A glass for a magnetic recording medium substrate or for a glass spacer for a magnetic recording and reproducing apparatus, which is an amorphous glass,

wherein an SiO_2 content is in a range of 5~~8~~4 mol% or more and 62 mol% or less,

a B_2O_3 content is more than 0 mol% and 1 mol% or less,

an MgO content is in a range of 15 mol% or more and 28 mol% or less,

an Li_2O content is in a range of 0.2 mol% or more,

an Na_2O content is in a range of 5 mol% or less,

a TiO_2 content is 0 mol% or more and 1 mol% or less,

a total content of SiO_2, MgO, Li_2O, Al_2O_3, and CaO (SiO_2 + MgO + Li_2O + Al_2O_3 + CaO) is 97.5 mol% or more,

and

a mole ratio of the total content of SiO_2 and MgO relative to the Li_2O content [(SiO_2 + MgO) / Li_2O] is 13 or more, as well as

wherein a mole ratio of the total content of Al_2O_3 and CaO relative to the MgO content [(Al_2O_3 + CaO) / MgO] is 0.80 or more, and/or

a mole ratio of the MgO content relative to a CaO content (MgO / CaO) is 8 or more.

2. The glass according to claim 1,

wherein a mole ratio of the CaO content relative to the Al_2O_3 content (CaO / Al_2O_3) is 0.24 or less.

3. The glass according to claim 1 or 2,

wherein a total content of Al_2O_3, MgO, and CaO (Al_2O_3 + MgO + CaO) is 36.50 mol% or less.

4. A glass for a magnetic recording medium substrate or for a glass spacer for a magnetic recording and reproducing apparatus, which is an amorphous glass,

wherein an SiO_2 content is in a range of 56 mol% or more,

an MgO content is in a range of 15 mol% or more and 28 mol% or less,

an Li_2O content is in a range of 0.2 mol% or more,

an Na_2O content is in a range of 5 mol% or less,

a total content of Al_2O_3, MgO, and CaO (Al_2O_3 + MgO + CaO) is 36.50 mol% or less.

a total content of SiO_2, MgO, Li_2O, Al_2O_3, and CaO (SiO_2 + MgO + Li_2O + Al_2O_3 + CaO) is 97.5 mol% or more,

a mole ratio of the total content of SiO_2 and MgO relative to the Li_2O content [(SiO_2 + MgO) / Li_2O] is 13 or more, and

a mole ratio of a CaO content relative to a total content of Al_2O_3 and MgO [CaO / (Al_2O_3 + MgO)] is 0.10 or less.

~~2~~5. The glass according to claim ~~1~~4,

wherein a mole ratio of a total content of Al_2O_3 and CaO relative to the MgO content [(Al_2O_3 + CaO) / MgO] is 0.55 or more.

6. The glass according to claim 4 or 5,

wherein a mole ratio of the MgO content relative to the CaO content (MgO / CaO) is 6 or more. ~~the total content of SiO_2, MgO, Li_2O, Al_2O_3, and CaO (SiO_2 + MgO + Li_2O + Al_2O_3 + CaO) is 93 mol% or more.~~

~~3~~7. A magnetic recording medium substrate comprising the glass according to any of claims 1 ~~or 2~~to 6.

~~4~~8. A magnetic recording medium comprising:

the magnetic recording medium substrate according to claim ~~3~~7; and a magnetic recording layer.

~~5~~9. A glass spacer for a magnetic recording and reproducing apparatus, comprising the glass according to any of claims 1 ~~or 2~~to 6.

~~6~~10. A magnetic recording and reproducing apparatus comprising at least one of the magnetic recording medium according to claim ~~4~~ 8 and the glass spacer for a magnetic recording and reproducing apparatus according to claim ~~5~~9.