CLAIMS

1. A method for manufacturing a magnetic-disk glass substrate comprising grinding processing for grinding a main surface of a glass substrate, wherein

in the grinding processing, a glass substrate main surface is ground using a grinding tool that includes grinding abrasive particles, a bonding material for bonding the grinding abrasive particles, and dispersion particles that are harder than the bonding material and softer than the grinding abrasive particles, the grinding abrasive particles and the dispersion particles being dispersed and bonded in the bonding material, and a ratio of an average particle diameter of the dispersion particles with respect to an average particle diameter of the grinding abrasive particles being within the range of 0.8 to 1.2.

2. A method for manufacturing a magnetic-disk glass substrate comprising grinding processing for grinding a main surface of a glass substrate, wherein

in the grinding processing, a glass substrate main surface is ground using a grinding tool that includes grinding abrasive particles, a bonding material for bonding the grinding abrasive particles, and dispersion particles that are harder than the bonding material and softer than the grinding abrasive particles, the grinding abrasive particles and the dispersion particles being dispersed and bonded in the bonding material, and the dispersion particles being aggregates in which a plurality of dispersion particles are bonded with glass.

3. The method for manufacturing a magnetic-disk glass substrate according to claim 1 or 2, wherein the bonding material is a resin material.

4. The method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 3, wherein the grinding abrasive particles are

assembled abrasive particles in which a plurality of grinding abrasive particles are bonded with a fixing material.

5. The method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 4, wherein the grinding abrasive particles include diamond abrasive particles.

6. The method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 5, wherein the dispersion particles are made of any of alumina, zirconia or glass.

7. The method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 6, wherein the dispersion particles are made of glass that is softer than glass to be ground.

8. The method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 7, wherein the dispersion particles are aggregates in which a plurality of dispersion particles are bonded with glass that is softer than glass to be ground.

9. The method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 8, wherein a proportion of the dispersion particles with respect to the grinding abrasive particles in the bonding material is such that 0.1 to 5 dispersion particles exist per grinding abrasive particle.

10. A grinding tool for grinding a surface of a glass substrate for an electronic device, comprising:

grinding abrasive particles; a bonding material for bonding the grinding abrasive particles; and dispersion particles that are harder than the bonding material and softer than the grinding abrasive particles, wherein the grinding abrasive particles and the dispersion particles are dispersed and bonded in the bonding material, and a ratio of an average particle diameter of the dispersion particles with respect to an average particle diameter of the grinding abrasive particles being within the range of 0.8 to 1.2.

11. A grinding tool for grinding a surface of a glass substrate for an electronic device, comprising:

grinding abrasive particles; a bonding material for bonding the grinding abrasive particles; and dispersion particles that are harder than the bonding material and softer than the grinding abrasive particles, wherein the grinding abrasive particles and the dispersion particles are dispersed and bonded in the bonding material, and the dispersion particles being aggregates in which a plurality of dispersion particles are bonded with glass.

12. The grinding tool according to claim 10 or 11, wherein the grinding abrasive particles include diamond abrasive particles.

13. The grinding tool according to any of claims 10 to 12, wherein the dispersion particles are made of any of alumina, zirconia or glass.

14. A method for manufacturing a glass substrate being a material for a magnetic-disk glass substrate comprising grinding processing for grinding a main surface of a glass substrate, wherein

in the grinding processing, a glass substrate main surface is ground using a grinding tool that includes grinding abrasive particles, a bonding material for bonding the grinding abrasive particles, and dispersion particles that are harder than the bonding material and softer than the grinding abrasive particles, the grinding abrasive particles and the dispersion particles being dispersed and bonded in the bonding material, and a ratio of an average particle diameter of the dispersion particles with respect to an average particle diameter of the grinding abrasive particles being within the range of 0.8 to 1.2.

15. A method for manufacturing a glass substrate being a material for a magnetic-disk glass substrate comprising grinding processing for grinding a main surface of a glass substrate, wherein

in the grinding processing, a glass substrate main surface is ground using a grinding tool that includes grinding abrasive particles, a bonding

material for bonding the grinding abrasive particles, and dispersion particles that are harder than the bonding material and softer than the grinding abrasive particles, the grinding abrasive particles and the dispersion particles being dispersed and bonded in the bonding material, and the dispersion particles being aggregates in which a plurality of dispersion particles are bonded with glass.

16. The method for manufacturing a glass substrate being a material for a magnetic-disk glass substrate according to claim 14 or 15, wherein the grinding abrasive particles include diamond abrasive particles.

17. The method for manufacturing a glass substrate being a material for a magnetic-disk glass substrate according to any of claims 14 to 16, wherein the dispersion particles are made of any of alumina , zirconia or glass.

18. A method for manufacturing a magnetic-disk glass substrate comprising performing at least polishing processing to the main surfaces of the glass substrate being the material for the magnetic-disk glass substrate manufactured with the method for manufacturing the glass substrate being the material for the magnetic-disk glass substrate according to any of claims 14 to 17.

19. A method for manufacturing a magnetic disk, wherein at least a magnetic recording layer is formed on a magnetic-disk glass substrate manufactured using the method for manufacturing a magnetic-disk glass substrate according to any of claims 1 to 9 and 18.