CLAIMS

1. A method for manufacturing a glass substrate for an information recording medium, comprising:

a first step of spraying a plurality of particles onto a main surface of a glass substrate through a nozzle; and

a second step of grinding the main surface of the glass substrate after the first step with fixed abrasive particles mainly composed of diamond particles,

wherein the first step includes

spraying the particles onto the main surface such that the main surface has an arithmetic average roughness Ra_1, when a wavelength region is not set, within a range of 1 μm to 5 μm and further an arithmetic average roughness Ra_2, when the wavelength region is set to 2.5 μm to 80 μm, within a range of 0.1 μm to 1.0 μm,

the particles in the first step have a maximum particle size of 50 μm to 150 μm, and

the diamond particles have an average particle size of 2 μm to 10 μm.

2. The method for manufacturing a glass substrate for an information recording medium according to claim 1,

wherein the main surface has a Vickers hardness of 610 kg/mm^2 or more.

3. The method for manufacturing a glass substrate for an information recording medium according to claims 1 or 2,

wherein the particles are sprayed at a pressure of 0.1 MPa to 1 MPa.

4. The method for manufacturing a glass substrate for an information recording medium according to any one of claims 1, 2 and 3,

wherein the glass substrate is a grass substrate obtained through a direct pressing process.

5. A method for manufacturing an information recording medium, comprising:

a first step of spraying a plurality of particles onto a main surface of a glass substrate through a nozzle;

a second step of grinding the main surface of the glass substrate after the first step with fixed abrasive particles mainly composed of diamond particles; and

a step of forming a magnetic film on the main surface of the glass substrate,

wherein the first step includes

spraying the particles onto the main surface such that the main surface has an arithmetic average roughness Ra_1, when a wavelength region is not set, within a range of 1 μm to 5 μm and further an arithmetic average roughness Ra_2, when the wavelength region is set to 2.5 μm to 80 μm, within a range of 0.1 μm to 1.0 μm, and

the diamond particles have an average particle size of 2 μm to 10 μm.

6. A method for manufacturing a glass substrate for an information recording medium according to any one of claims 1-4, further comprising forming at least a magnetic film on a main surface of a glass substrate for an information recording medium obtained in accordance with the method for manufacturing a glass substrate for an information recording medium as recited in any one of claims 1, 2, 3, and 4.