CLAIMS

1. A non-magnetic substrate for a magnetic disk, the non-magnetic substrate comprising:

a substrate main body having two opposing main surfaces, the substrate main body being a glass substrate or an aluminum alloy substrate; and

a metal film that is provided on the main surfaces and an outer circumferential edge surface of the substrate main body and is made of a material having a loss factor of 0.01 or more,

wherein the non-magnetic substrate has a thickness (T+D) of 0.700 mm or less, the thickness (T+D) being the sum of a thickness T of the substrate main body and a thickness D of the metal film,

a ratio D/T of the thickness D of the metal film to the thickness T of the substrate main body is 0.025 or more, and

the outer circumferential edge surface of the substrate main body forming an interface with the metal film has a surface roughness maximum height Rz of 0.5 μm or more.

2. A non-magnetic substrate for a magnetic disk, the non-magnetic substrate comprising:

a substrate main body having two opposing main surfaces, the substrate main body being a glass substrate or an aluminum alloy substrate; and

a metal film that is provided on the main surfaces and an outer circumferential edge surface of the substrate main body and is made of a material having a loss factor of 0.01 or more,

wherein the non-magnetic substrate has a thickness (T+D) of 0.700 mm or less, the thickness (T+D) being the sum of a thickness T of the substrate main body and a thickness D of the metal film,

a ratio D/T of the thickness D of the metal film to the thickness T of the substrate main body is 0.025 or more, and

a surface roughness maximum height Rz of the film formed on the outer circumferential edge surface of the non-magnetic substrate for a magnetic disk is smaller than a surface roughness maximum height Rz of the substrate main body at the outer circumferential edge surface of the substrate main body.

3. The non-magnetic substrate for a magnetic disk according to claim 1 or 2,

wherein the metal film is formed on the main surfaces, and an outer circumferential edge surface of the substrate main body, and

a thickness of the metal film provided on each of the main surfaces is 80% or more of a thickness of the metal film provided on the edge surface.

4. The non-magnetic substrate for a magnetic disk according to any one of claims 1 to 3,

wherein the non-magnetic substrate has a thickness of 0.640 mm or less.

5. The non-magnetic substrate for a magnetic disk according to any one of claims 1 to 4,

wherein the non-magnetic substrate has a thickness of 0.570 mm or less.

6. The non-magnetic substrate for a magnetic disk according to any one of claims 1 to 4,

wherein the non-magnetic substrate has a thickness of 0.520 mm or less.

7. The non-magnetic substrate for a magnetic disk according to any one of

claims 1 to 4,

wherein the non-magnetic substrate has a thickness of 0.400 mm or less.

8. The non-magnetic substrate for a magnetic disk according to any one of claims 1 to 7,

wherein the non-magnetic substrate for a magnetic disk has a disk shape, and

the disk shape has an outer diameter of 90 mm or more.

9. The non-magnetic substrate for a magnetic disk according to any one of claims 1 to 8,

wherein the metal film has a Vickers hardness Hv of 100 [kgf/mm^2] or more.

10. The non-magnetic substrate for a magnetic disk according to any one of claims 1 to 9,

wherein the metal film is made of Ni-P alloy.

11. A magnetic disk,

wherein a surface of the non-magnetic substrate for a magnetic disk according to any one of claims 1 to 10 has at least a magnetic film.