# Claims

[Claim 1]

An amorphous silica powder having an average particle size of ~~3~~20 μm or more and ~~50~~35 μm or less, wherein a percent retention of 250 μm or more by dry sieving is 5.0% by mass or less, and a number of magnetizable particles having a size of 45 μm or more is zero as measured by the following method~~.~~:

~~[Method of measuring magnetizable particles]~~

50 g of an amorphous silica powder and 800 g of ion exchange water are added in a 1000 mL beaker to prepare a slurry~~.~~; then

~~T~~the slurry is stirred by a stirring device at a rotation speed of 550 rpm and with reverse rotation at intervals of 5 seconds, while a bar magnet having a length of 150 mm, a diameter of 25 mm, and a magnetic force of 12000 gausses which is covered with a rubber cover having a thickness of 20 μm is immersed therein for 1 minute to capture magnetizable particles~~.~~; then

~~T~~the bar magnet capturing the magnetizable particles is removed from the slurry, and the rubber cover is removed from the magnet bar above an empty beaker, and washed with ion~~-~~ exchange water to detach the magnetizable particles, which are then dispersed in water~~.~~; then

The resulting dispersion is loaded on a suction filtration device equipped with a 25 mm diameter nylon filter (opening 35 μm) to collect the magnetizable particles on the nylon filter. The nylon filter having the collected magnetizable particles is set on a microscope, and the number of magnetizable particles having a size of 45 μm or more is measured among the magnetizable particles collected on the nylon filter while moving the entire area of the filter at a magnification of 100 times.

[Claim 2]

The amorphous silica powder according to claim 1, wherein a maximum particle size is 75 μm or less.

[Claim 3]

The amorphous silica powder according to claim 1 or 2, wherein an average sphericity of particles having a size of 10 μm or more is 0.80 or more.

[Claim 4]

A method of producing the amorphous silica powder according to any one of claims 1 to 3, comprising the steps of:

using water at 60°C or less to prepare a water slurry having an amorphous silica powder concentration of 40% by mass or less;

circulating the water slurry from bottom to top at a flow rate of 0.2 cm/s or more and 5 cm/s or less through a magnetic separation zone in a circulation line having

the magnetic separation zone, in which 10 or more screens having a aperture of 0.5 mm or more and 15 mm or less and each having a magnetic force of 14000 gausses or more are vertically stacked, to remove magnetizable particles included in the amorphous silica powder; and

feeding a water slurry containing the amorphous silica powder after removal of the magnetizable particles through a center portion of a two-fluid nozzle from a container set to 130°C or higher and 300°C or lower of inside temperature and having the two-fluid nozzle provided at the upper portion, and at the same time injecting dry air through an outer portion of the two-fluid nozzle to spray-dry the slurry at a spray speed of slurry droplets of 50 m/s or more and 250 m/s or less.

[Claim 5]

A resin composition comprising the amorphous silica powder according to any one of claims 1 to 3.

[Claim 6]

A semiconductor sealing material comprising the resin composition according to claim 5.