Claims

[Claim 1]

A coating solution for forming a dust collecting layer in a dust collecting filter, comprising:

a powder consisting of silica fine particles,

dopamine hydrochloride, and

an adhesive;

wherein an average particle size D50 value of the powder is 3.7 to 30.0 μm, and the silica fine particles are in an amount of 25 wt% to 35 wt% based on the weight of the coating solution.

[Claim 2]

The coating solution for forming a dust collecting layer in a dust collecting filter according to claim 1, wherein the powder is spherical silica fine particles.

[Claim 3]

The coating solution for forming a dust collecting layer in a dust collecting filter according to claim 1 or 2, wherein further comprising a surfactant in an amount of 0.1-10.0wt% based on the weight of the coating solution.

[Claim 4]

A method for producing a coating solution for forming a dust collecting layer in a dust collecting filter, comprising:

pouring silica fine particles and an adhesive in a buffer solution,

stirring (homogenizing) the mixture, and then adding dopamine hydrochloride;

wherein an average particle size D50 value of the silica fine particles is 3.7 to 30.0 μm, and the silica fine particles are in an amount of 25 wt% to 35 wt% based on the weight of the coating solution.