CLAIMS

[Claim 1]

A heat-ray shielding particle dispersion comprising a heat-ray shielding particle dispersion which contains ITO particles having a heat-ray shielding capability, a solvent containing 60% by mass or more of water and a dispersant,

the ITO particles have a BET specific surface area of 20 m^2/g or more, have a blue or dark blue tone represented by an L value of 50 or less, $a<0$ and $b<0$ in an Lab color system, and are contained in an amount of 1-90% by mass with respect to 100% by mass of the dispersion,

the solvent is a component obtained by removing the heating residue from the heat-ray shielding particle dispersion, and is contained in an amount of 6.1-99.0% by mass with respect to 100% by mass of the dispersion,

the dispersant is one kind or two or more kinds of dispersants selected from the group consisting of a phosphate ester-based dispersant, a polyglycerin-based dispersant, a polyvinylpyrrolidone-based dispersant, and a polyacrylate-based dispersant, and

a content of an active ingredient(s) of the dispersant is 0.05-80 parts by mass with respect to 100 parts by mass of the ITO particles.

[Claim 2]

The heat-ray shielding particle dispersion

according to Claim 1, wherein, when the heat-ray shielding particle dispersion having an ITO particle concentration of 0.3% by mass is placed in a glass cell having an optical path length of 1 mm and measured, a haze is 5% or less, a transmittance at a wavelength of 1,200 nm is 60% or less and a visible light transmittance is 85% or more.

[Claim 3]

A method for producing a heat-ray shielding particle dispersion by mixing ITO particles having a heat-ray shielding capability, a solvent containing 60% by mass or more of water and a dispersant,

the ITO particles have a BET specific surface area of 20 m^2/g or more, have a blue or dark blue tone represented by an L value of 50 or less, $a<0$ and $b<0$ in an Lab color system,

the solvent is a component obtained by removing the heating residue of the dispersion from the heat-ray shielding particle dispersion,

the dispersant is one kind or two or more kinds of dispersants selected from the group consisting of a phosphate ester-based dispersant, a polyglycerin-based dispersant, a polyvinylpyrrolidone-based dispersant, and a polyacrylate-based dispersant, and

these are mixed so as to contain 1 to 90% by mass of the ITO particles and 6.1 to 99.0% by mass of the solvent with respect to 100% by mass of the dispersion,

respectively, and 0.05 to 80 parts by mass of the dispersant as an active ingredient of the dispersant when the ITO particles are made 100 parts by mass.

[Claim 4]

A method for producing a coating material for heat-ray shielding using the heat-ray shielding particle dispersion according to Claim 1 or 2, or the heat-ray shielding particle dispersion produced by the method according to Claim 3.