CLAIMS

1. A sound absorbing and insulating material comprising: a first fiber aggregate layer; and a second fiber aggregate layer superimposed on the first fiber aggregate layer, wherein

the first fiber aggregate layer is composed of a fiber aggregate for sound insulation, wherein the fiber aggregate for sound insulation satisfies formulae (i') and (ii) below where the fiber aggregate for sound insulation has an average fiber diameter of Da and a bulk density of ρa,

the second fiber aggregate layer is composed of a fiber aggregate satisfying formulae (iii) and (iv) below where the fiber aggregate has an average fiber diameter of the second fiber aggregate of Db and a bulk density of the second fiber aggregate of ρb

(i') $450\ nm \leq Da \leq 1650\ nm$

(ii) $0.09\ g/cm^3 \leq \rho a \leq 0.33 g/cm^3$

(iii) $4000\ nm \leq Db \leq 8500\ nm$

(iv) $0.04\ g/cm^3 \leq \rho b \leq 0.06\ g/cm^3$.

2. The sound absorbing and insulating material according to Claim 1, wherein the fiber aggregate for sound insulation further satisfies a formula (ii') below,

(ii') $0.09\ g/cm^3 \leq \rho a \leq 0.22\ g/cm^3$.

3. The sound absorbing and insulating material according to Claim 1, wherein the fiber aggregate for sound insulation further satisfies formulae (i'') and (ii'') below,

(i'') $1350\ nm \leq Da \leq 1650\ nm$

(ii'') $0.18\ g/cm^3 \leq \rho a \leq 0.22\ g/cm^3$.

4. The sound absorbing and insulating material according to any one of Claims 1 to 3, wherein the sound absorbing and insulating material further satisfies a formula (v) below where the first fiber aggregate layer has a thickness of ta and the second fiber aggregate layer has a thickness of tb

(v) $ta < tb$.

5. The sound absorbing and insulating material according to Claim 4, wherein the sound absorbing and insulating material further satisfies a formula (vi) below

(vi) $ta/tb \leq ½$.

6. The sound absorbing and insulating material according to any one of Claims 1 to 5, wherein

the first fiber aggregate layer and the second fiber aggregate layer are composed of an identical material.

7. A sound absorbing and insulating material for a vehicle used for a vehicle, the material comprising the sound absorbing and insulating material according to any one of Claims 1 to 6, wherein

the first fiber aggregate layer is arranged on an outdoor side of the vehicle and the second fiber aggregate layer is arranged on an indoor side of the vehicle.