[**CLAIMS**]

[Claim 1]

1. A insulation device for a battery, comprising:

a first cover layer including a first hole configured to act as a passage through which heat may move;

a second cover layer attached to one surface of the first cover layer and including a second hole configured to act as a passage through which heat may travel; and

a third cover layer disposed on the opposite surface to which the first cover layer is attached on the second cover layer,

wherein the insulation device includes an insulation part positioned inside within a void of the third cover layer, and

the insulation part includes a functional filler configured to improve the insulation performance of said insulation device.,

[Claim 2]

The insulation device for the battery of claim 1, wherein the functional filler includes an aerogel powder and the aerogel powder is included at 50 weight% to 100 weight% range based on the functional filler of 100 weight%, and

wherein a filling density of the functional filler included in the insulation part is in a 0.05 g/cm^3 to 0.20 g/cm^3 range.

[Claim 3]

2. The insulation device for the battery of claim 1, wherein

the average thickness of the first cover layer or the average thickness of the second cover layer is in a 10 μm to 50 μm range.

[Claim 4]

3. The insulation device for the battery of claim 1, wherein

the first cover layer includes at least one among a polyimide (PI) film, a polyethylene terephthalate (PET) film, a cyclo olefin polymer (COP) film, a cast polypropylene (CPP) film, and a nylon film.

~~[Claim 5]~~

4. The insulation device for the battery of claim 1, wherein

the ~~average thickness of the second cover layer is in a 10 μm to 50 μm range~~ filling density of the functional filler is in a 0.10 g/cm^3 to 0.15 g/cm^3 range.

~~[Claim 6]~~

5. The insulation device for the battery of claim 1, wherein

the second cover layer includes at least one of aluminum and mica.

~~[Claim 7]~~

6. The insulation device for the battery of claim 1, wherein

the average thickness of the third cover layer is in a 0.1 mm to 1.5 mm range.

~~[Claim 8]~~

7. The insulation device for the battery of claim 1, wherein

the third cover layer includes at least one of a glass fiber, a silica wool, a mineral wool, a ceramic wool, a woven fiber, and a non-woven fabric fiber.

~~[Claim 9]~~

8. The insulation device for the battery of claim 1, wherein

the third cover layer is configured of a material having a density of 30 g/m^2 to

200 g/m^2 range.

~~[Claim 10]~~

9. The insulation device for the battery of claim 1, wherein

the average thickness of the insulation device is 4 mm or less.

~~[Claim 11]~~

10. The insulation device for the battery of claim 1, wherein

~~the insulation device includes two or more exterior materials including the first cover layer, the second cover layer, and the third cover layer, and~~

~~two or more exterior materials are attached through~~ a sealing part is positioned on the edge of the second cover layer to attach the first cover layer, the second cover layer, and the third cover layer.

~~[Claim 12]~~

11. The insulation device for the battery of claim ~~11~~10, wherein

the sealing part includes at least one of acryl-based adhesives, silicon-based adhesives, rubber-based adhesives, polyphthalate adhesives, PPA adhesives (acid modified polypropylene), and PEA adhesives (acid modified polyethylene).

~~[Claim 13]~~

12. The insulation device for the battery of claim 1, wherein

the average diameter of the first hole is 15 μm or less.

~~[Claim 14]~~

13. The insulation device for the battery of claim ~~13~~12, wherein

the first cover layer includes a plurality of first holes, and

the interval between the first holes is 0.5 cm or less.

~~[Claim 15]~~

14. The insulation device for the battery of claim 1, wherein

the average diameter of the second hole is 15 μm or less.

~~[Claim 16]~~

15. The insulation device for the battery of claim ~~15~~14, wherein

the second cover layer includes a plurality of second holes, and

the interval between the second holes is 0.5 cm or less.

~~[Claim 17]~~

16. The insulation device for the battery of claim 1, wherein

the first hole and the second hole are ~~integrally~~ formed through a single process.

~~[Claim 18]~~

17. The insulation device for the battery of claim 1, wherein

the functional filler includes at least one of ~~an aerogel powder,~~ a fumed silica, and glass bubbles.

~~[Claim 19]~~

~~The insulation device for the battery of claim 18, wherein~~

~~the aerogel powder is included at 50 weight% to 100 weight% range based on the functional filler of 100 weight%.~~

~~[Claim 20]~~

18. The insulation device for the battery of claim 1, wherein

the average particle diameter of the functional filler is 100 μm or less.

~~[Claim 21]~~

19. The insulation device for the battery of claim 1, wherein

the insulation part further includes a first additive.

~~[Claim 22]~~

20. The insulation device for the battery of claim ~~21~~19, wherein

the first additive includes at least one among titanium dioxide (TiO_2), aluminum oxide (Al_2O_3)~~,~~ and iron oxide (Fe_2O_3)~~, and aluminum oxide (Al_2O_3)~~.

~~[Claim 23]~~

21. The insulation device for the battery of claim ~~21~~19, wherein

the content of the first additive is in a 1 weight% to 20 weight% range based on the functional filler at 100 weight%.

~~[Claim 24]~~

22. The insulation device for the battery of claim 1, wherein

the insulation part further includes a second additive.

~~[Claim 25]~~

23. The insulation device for the battery of claim ~~24~~22, wherein

the second additive includes at least one among magnesium hydroxide (MDH), aluminum hydroxide (ATH), zinc borate, GREP-EG (graphite), and antimony trioxide.

~~[Claim 26]~~

24. The insulation device for the battery of claim ~~24~~22, wherein

the content of the second additive is in a 1 weight% to 20 weight% range for the functional filler at 100 weight%.

~~[Claim 27]~~

25. The insulation device for the battery of claim 1, wherein

~~the insulation device includes two or more exterior materials including the first cover layer, the second cover layer, and the third cover layer, and~~

~~two or more exterior materials are attached through~~ an adhesive layer is disposed between the second cover layer and the third cover layer to attach the second cover layer and the third cover layer.

~~[Claim 28]~~

26. The insulation device for the battery of claim ~~27~~25, wherein

the adhesive layer includes at least one of a polyester film, a polypropylene film, a polyurethane film, an ethylene vinyl acetate (EVA) film, a polyolefin film, a polyamide film, a polyethylene terephthalate (PET) film, and an acrylate film.

~~[Claim 29]~~

27. The insulation device for the battery of claim ~~27~~26, wherein

the adhesive layer includes a third hole, and

the third hole is ~~integrally~~ formed with the first hole and the second hole~~s~~ through a single process.