CLAIMS

1. A graphene nanomaterial selected from graphene nanofibers,

wherein the graphene nanomaterial has a particle size distribution having a dn(90) of 0.60 μm or smaller in number of particle and a dv(90) of 80.00 μm or smaller in volume particle, as measured by laser diffraction particle analyzer.

2. The graphene nanomaterial according to claim 1, wherein the BET specific surface area of the graphene nanomaterial is comprised between 100 and 500 m^2/g.

3. The graphene nanomaterial according to claim 2, wherein the BET specific surface area of the graphene nanomaterial is between 300-350 m^2/g.

4. The graphene nanomaterial according to claim 1, wherein the pore volume of the graphene nanomaterial is between 0.35-0.40 cm^3/g.

5. The graphene nanomaterial according to claim 1, wherein the BET specific surface area of the graphene nanomaterial is between 300-350 m^2/g and the pore volume of the graphene nanomaterial is between 0.35-0.40 cm^3/g.

6. The graphene nanomaterial according to any one of claims 1 to 5, wherein the impurities in the graphene nanomaterial is less than 0.01% by weight.

7. A method of preparing the graphene nanomaterial according to any one of claims 1 to 6, from raw graphene nanofibers, comprising the steps of:

a) purifying the raw graphene material using a strong acid to remove any metal or impurity present in the graphene raw material,

b) reducing the particle size of the purified graphene nanomaterial through an exfoliation process to a particle size distribution having a dn(90) of 0.60 μm or smaller in number of particle and a dv(90) of 80.00 μm or smaller in volume particle, as measured by laser diffraction particle analyzer,

c) optionally subjecting the obtained product to a depyrogenization process.

8. The graphene nanomaterial according to any of claims 1 to 6, for use as a cosmetic.

9. The graphene nanomaterial according to claim 8, wherein the cosmetic is to treat the skin.

10. The graphene nanomaterial according to claim 8 or 9, wherein the cosmetic is to reduce adipose tissue of the skin, preferably to reduce fat in the hypodermis.

11. The graphene nanomaterial according to any one of claims 1 to 6, for use as a cosmetic treatment method for preventing or reducing the increase in the volume of adipose tissue and/or the formation of fatty lumps, wherein the graphene nanomaterial is applied to the skin.

12. The graphene nanomaterial to claim 11, wherein the cosmetic treatment is for the reduction of adipose tissue stored in the hypodermis and/or wrinkles.

13. A composition comprising the graphene nanomaterial according to any one of claims 1 to 6, for use as a cosmetic treatment method for preventing or reducing the increase in the volume of adipose tissue and/or the formation of fatty lumps, wherein the composition is applied to the skin.

14. The composition according to claim 13, wherein the cosmetic treatment is for the reduction of adipose tissue stored in the hypodermis and/or wrinkles.

15. The graphene nanomaterial according to any one of claims 1 to 6, for use as a cosmetic in preventing or reducing the increase in the volume of adipose tissue and/or the formation of fatty lumps, wherein the graphene nanomaterial is applied to the skin.

16. The graphene nanomaterial according to claim 15, wherein the cosmetic is for the reduction of adipose tissue stored in the hypodermis and/or wrinkles.

17. A composition comprising the graphene nanomaterial according to any one of claims 1 to 6, for use as a cosmetic in preventing or reducing the increase in the volume of adipose tissue and/or the formation of fatty lumps, wherein the composition is applied to the skin.

18. The composition according to claim 17, wherein the cosmetic is for the reduction of adipose tissue stored in the hypodermis and/or wrinkles.

19. A cosmetic composition comprising the graphene nanomaterial according to any one of claims 1 to 6 and a cosmetically acceptable excipient.

20. The cosmetic composition according to claim 19, wherein the composition is suitable for topical use.

21. The cosmetic composition according to claims 19 or 20, wherein the composition is in a form selected from a cream, a lotion, an ointment, a microemulsion, a fatty ointment, a gel, an emulsion-gel, a paste, a foam, a tincture, a patch, a bandage, a membrane, and transdermal therapeutic systems.

22. The cosmetic composition according to claim 21, wherein the composition is in a form selected from a cream, a hydrogel, or an emulsion-gel.