

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 its BET specific surface area is comprised between 100 and 500 m^2/g .
3. The graphene nanomaterial as defined in claim 2, wherein its BET specific surface area is between 300-350 m^2/g .
4. The graphene nanomaterial as defined in claim 1, wherein its pore volume is between 0.35-0.40 cm^3/g .
5. The graphene nanomaterial as defined in claim 1, wherein its BET specific surface area is between 300-350 m^2/g and its pore volume is between 0.35-0.40 cm^3/g .
6. The graphene nanomaterial according to any of claims 1 to 5, wherein the impurities in the nanomaterial are less than 0.01% by weight.
7. Use of a graphene nanomaterial according to any of claims 1 to 6 as a cosmetic.
8. Cosmetic use according to claim 7 to treat the skin.
9. Cosmetic use according to claim 7 or 8 to reduce adipose tissue of the skin, preferably to reduce fat in the hypodermis.
10. Cosmetic treatment method for preventing or reducing the increase in the volume of adipose tissue and/or the formation of fatty lumps, characterized in that the graphene nanomaterial according to any of claims 1-6, or a composition comprising it, is applied to the skin.
11. Cosmetic treatment according to claim 10 for the reduction of cellulitis, wrinkles and/or varicose veins.
12. Graphene nanomaterial according to any of claims 1-6, or a composition comprising it, for the cosmetic use in preventing or reducing the increase in the

volume of adipose tissue and/or the formation of fatty lumps, wherein said nanomaterial, or said composition, is applied to the skin.

13. Graphene nanomaterial, or a composition comprising it, for cosmetic use according to claim 12, wherein the use is for the reduction of cellulitis, wrinkles and/or varicose veins.
14. A cosmetic composition comprising a graphene nanomaterial product as defined in any of claims 1 to 6 and a cosmetically acceptable excipient.
15. A cosmetic composition according to claim 14 suitable for topical use.
16. A cosmetic composition according to claims 14 or 15 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.
17. A cosmetic composition according to claim 16 wherein the composition is in a form selected from a cream, a hydrogel or an emulsion-gel.
18. A method to prepare the product as defined in any of claims 1 to 6 from raw graphene nanofibers, comprising the steps of:
- a) Purifying the raw graphene material, preferably 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, preferably 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.