Claims

1. An electrotechnical fluid composition, comprising:
more than 90 wt-% paraffins in the C17- C18 range, based on the total weight of the composition,
wherein the ratio of the amount of C18 i-paraffins to the amount of C18 n-paraffins is more than 40, based on the weight of the C18 i-paraffins and the weight of the C18 n-paraffins in the composition.

2. The electrotechnical fluid composition according to claim 1, wherein the composition comprises less than 95 wt-% paraffins in C17- C18 range, based on the total weight of the composition.

3. The electrotechnical fluid composition according to claim 1 or 2, wherein the total isoparaffinic content of the composition is more than 90 wt-%, based on the total weight of the composition.

4. The electrotechnical fluid composition according to any of claims 1-3, wherein the composition comprises less than 2 wt-% C15 and lighter paraffins and less than 2 wt-% C20 and heavier paraffins, based on the total weight of the composition.

5. The electrotechnical fluid composition according to any of claims 1-4, wherein the composition has a flash point according to ENISO2719:2016 of at least 135 °C, preferably at least 140 °C, more preferably at least 145 °C.

6. The electrotechnical fluid composition according to any of claims 1-5, wherein the composition comprises more than 37 wt-% C17 paraffins and/or comprises less than 42 wt-% C17 paraffins, based on the total weight of the composition.

7. The electrotechnical fluid composition according to any of claims 1-6, wherein the composition comprises more than 45 wt-%, preferably more than 48 wt-%, more preferably more than 50 wt-% C18 paraffins and/or comprises less than 57 wt-% C18 paraffins, based on the total weight of the composition.

8. The electrotechnical fluid composition according to any of claims 1-7, wherein the ratio of the amount of C17 i-paraffins to the amount of C17 n-paraffins is more than 20, and preferably less than 30, based on the weight of the C17 i-paraffins and the weight of the C17 n-paraffins in the composition.

9. The electrotechnical fluid composition according to any of claims 1-8, wherein the composition comprises 0.01-1 wt-% aromatics, preferably 0.01-0.5 wt-% aromatics, based on the total weight of the composition.

10. The electrotechnical fluid composition according to any of claims 1-9, wherein the composition comprises 3-4 wt-% C16 i-paraffins, 35-40 wt-% C17 i-paraffins, 50-55 wt-% C18 i-paraffins, 1-3 wt-% C19 i-paraffins, 0.1-1 wt-% C16 n-paraffins, 0.5-2 wt-% C17 n-paraffins, 0.5-2 wt-% C18 n-paraffins and 0.01-1 wt-% C19 n-paraffins, based on the total weight of the composition.

11. The electrotechnical fluid composition according to any of claims 1-10, wherein the total isoparaffinic content of the composition is less than 98 wt-%, based on the total weight of the composition.

12. The electrotechnical fluid composition according to any of claims 1-11, wherein the ratio of the amount of C18 i-paraffins to the amount of C18 n-paraffins is between 42 and 47, based on the weight of the C18 i-paraffins and the weight of the C18 n-paraffins in the composition.

13. The electrotechnical fluid composition according to any of claims 1-12, wherein the conductivity according to ISO6297:1997 at 22 °C is less than 1 pS/m and NOACK150 according to ASTMD5800-B is 8.5 wt-% or less.

14. The electrotechnical fluid composition according to any of claims 1-13, wherein the density according to EN ISO12185 at 20 °C is between 782 and 784 kg/m^3, and the cloud point according to ASTMD7689:2017 is lower than -32 °C.

15. The electrotechnical fluid composition according to any of claims 1-14, wherein the composition has a biogenic carbon content of more than 50 wt-%, preferably more than 90 wt-%, and most preferably more than 99 wt-%.

16. A method of producing an electrotechnical fluid composition according to any of claims 1-15, comprising:
conducting at least one hydrodeoxygenation reaction and at least one isomerization reaction of a renewable raw material to obtain a renewable paraffinic feed; and
subjecting the renewable paraffinic feed to at least one separation process to recover a hydrocarbon composition having a boiling range according to EN ISO3405:2011 within a range from 275 °C to 300 °C, preferably within a range from about 280 °C to 300 °C.

17. Use of an electrotechnical fluid composition according to any of claims 1-15 in an electrical device, preferably as a battery coolant, an insulating oil, a cable oil, an electric vehicle battery coolant, transformer oil or as a component of transformer oil, or as a server farm coolant.