

# Review of: "Investigation of the Dielectric Behaviour of Propylene Glycol (100) Dispersed With Graphene Nano Powder to Determine the Optimal Conditions Using Response Surface Methodology"

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Potential competing interests: No potential competing interests to declare.

The authors investigated the dielectric behaviour of propylene glycol (100) dispersed with graphene nano powder to determine the optimal conditions using response surface methodology. The topic is interesting and can be accepted after major revision. The comments are as follows:

1. Many more references should be added throughout the text. By including more references on the topic, this information can enrich the article. For example:

A: Rahmatinejad, B., Abbasgholipour, M., & Mohammadi Alasti, B. (2021). Investigating thermo-physical properties and thermal performance of Al<sub>2</sub>O<sub>3</sub> and CuO nanoparticles in water and ethylene glycol based fluids. *International Journal of Nano Dimension*, 12(3), 252-271.

B: Rahmatinejad, B. (2022). Investigating thermophysical properties and thermal performance of Al<sub>2</sub>O<sub>3</sub> nanoparticles in water and ethylene glycol based fluids. *Journal of Nanostructures*, 12(3), 642-659.

2. What method was used to determine the rupture tension?

3. What is the role of graphene nano powder in this consideration?

4. Please provide more information in this section of the article regarding why 2FI was superior to the others in order to facilitate the reader's understanding.

5. The table and figure ought to be given instantly after the section in which they are said.

6. Please point out the concentration of graphene when you get the highest possible viscosity, as well as the highest electrical conductivity.