

# Review of: "Shear stress during the flow of thixotropic and rheopex suspensions"

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**Potential competing interests:** No potential competing interests to declare.

0. Rheopex means rheopexy? If so, anti-thixotropic is preferable.

1. Why are "single grain" and "dimers" used?

2. Is there a reversible chemical reaction involved so that two single grains react to form a dimer?

If this is not the case, other words, for example, single particle, single entity, or single moiety, should be used so that a large readership could benefit from the paper's content.

3. Only physical interactions are involved between single grains to produce dimers?

4. The physicochemical state of the system should be indicated.

5. Pseudoplastic should be shear-thinning

6. Dilatant should be shear-thickening

7. Does one component mean grains and dimers of the exact chemical/physical nature or structure?

8. "describe well the flow" means the model was tested against experimental data?

9. "describe well" is a vague description. Is there a quantitative index? For example, a statistical indicator?

10. If "relaxation effects" would occur, viscoelasticity would be present, right?

11. In the Introduction, single grains and dimers are considered two fractions of a one-component system, but in the Theory of calculations, these two fractions are considered two separate components. This seems contradictory.

12. The rationale seems solid, yet the article needs to be more detailed and improved to clarify the system's physicochemical state.

13. According to the author what are this work's contributions, originality, and limitations?