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Experimental investigation on thermo-physical properties of metal oxide composite nanolubricants

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## Highlights

- Measurement of thermo-physical properties for metal oxide composite nanolubricants
- Measurements are undertaken at different volume concentrations and temperatures
- Highest thermal conductivity enhancement was 2.41% for Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> nanolubricants
- Maximum viscosity increment of 20.50% are obtained for Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanolubricants
- Different nanoparticle combination has shown substantial variation in properties

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