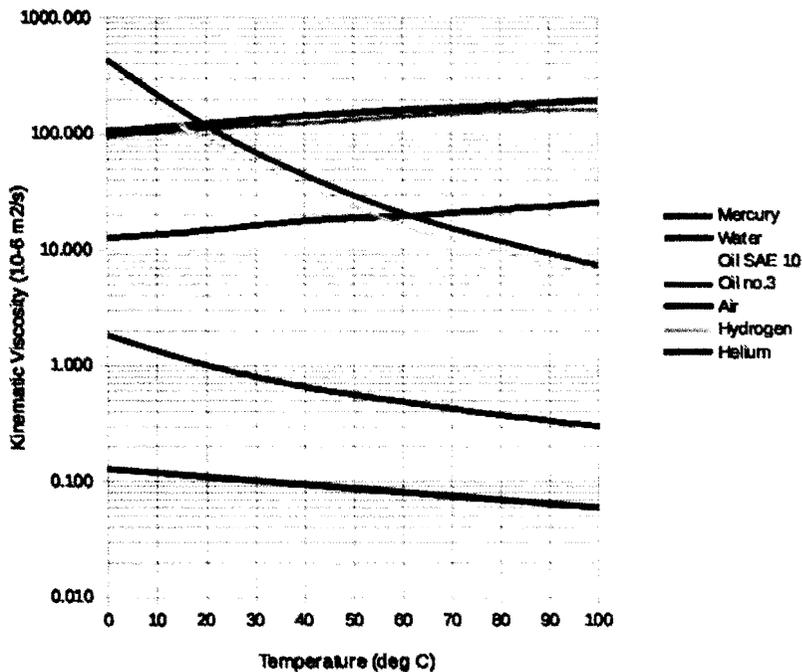
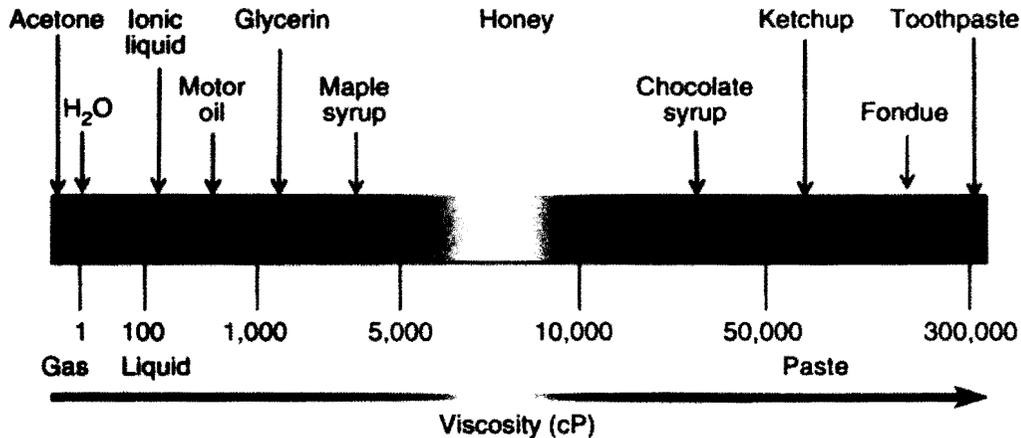


Chapter 1: Some features of viscous flows

• Real and ideal fluids

1. Real fluid possesses viscosity (due to shear force) even it may be small ($1 \text{ cP} = 10^{-3} \frac{\text{N}\cdot\text{s}}{\text{m}^2}$).



2. Viscosity is the quantity that describes a fluid's resistance to flow.
3. It is a property arising from collisions between neighboring particles in a fluid that are moving at different velocities.
4. Both the normal (pressure) and tangential forces may act on the fluids.