

Apparent Viscosity

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The vocabulary of the **apparent viscosity** (sometimes referred to as **coefficient of viscosity**) (Pa·s), can also designate the **absolute viscosity**^[1], **dynamic viscosity**^[2] or **shear viscosity**, while it is used generally for **non-Newtonian fluids** (pseudoplastic or shear-thinning Fluid, dilatant or shear-thickening Fluid, Yield Stress Fluids, Bingham plastic fluids, visco-elastic Fluids and time-dependent fluids).

However, it can also represent the value obtained by applying the instrumental equations used in obtaining the viscosity of a **Newtonian fluid** to viscometer measurements of a non-Newtonian fluid. It is obtained by dividing the **Shear stress** applied to a fluid (Pa) by its **shear rate** or **velocity gradient** (s⁻¹).

References

1. [^]Noureddine Ouerfelli. (2024). *Absolute Viscosity*. doi:10.32388/h85kj4.
2. [^]Noureddine Ouerfelli. (2024). *Dynamic Viscosity*. doi:10.32388/2oyr03.