

Dynamic fluid viscosity

@wikipedia

Fluid property, characterising a stress τ arising in fluid due to shear or tensile deformation:

$$(1) \quad \tau = \mu \cdot \frac{\partial u}{\partial l}$$

where

| | |
|---------------------------------|----------------|
| $\frac{\partial u}{\partial l}$ | shear velocity |
|---------------------------------|----------------|

| Dimension | SI units | Oil metric units | Oil field units |
|-------------------|----------|------------------|-----------------|
| $M L^{-1} T^{-1}$ | Pas | $cp = 10^3$ Pas | $cp = 10^3$ Pas |

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Fluid \(PVT\) Analysis](#) / [Fluid \(PVT\) modelling](#)

[[Kinematic viscosity](#)][[Dynamic fluid viscosity @model](#)]