

Oil Mobility

A property characterising agility of the [oil](#) under [pressure](#) gradient with account of [reservoir permeability](#) and [dynamic fluid viscosity](#):

(1)
$$M_o = \frac{k_o}{\mu_o} = k_{air} \cdot M_{ro}$$

where

k_o	formation permeability to oil
μ_o	dynamic viscosity of oil
k_{air}	absolute permeability to air
k_{ro}	relative formation permeability to oil
$M_{ro} = \frac{k_{ro}}{\mu_o}$	relative oil mobility

See also

[Physics](#) / [Fluid Dynamics](#) / [Percolation](#)

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Reservoir Flow Simulation](#)

[[Field Study & Modelling](#)] [[Phase Mobility](#)] [[Relative Phase mobilities](#)]