

Pore volume

@wikipedia

Part of the [bulk rock volume](#) V_r containing the [hydrodynamically connected fluids](#) (also called [free fluids](#)) within each [pore](#) element:

(1)
$$V_\phi = V_r - V_m$$

where

V_m	solid rock matrix volume
-------	--

Although the [fluid](#) inside the pore is movable but some [pores](#) maybe isolated from each other and do not contribute to rock [permeability](#).

This splits the [pore volume](#) V_ϕ into two components: [connected pore volume](#) V_{con} and [closed pore volume](#) V_{cls} :

$$V_\phi = V_{con} + V_{cls}$$

See also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Petrophysics \(PP\)](#) / [Volumetric Rock Model](#)

[[Basic reservoir properties](#)] [[Pore volume](#)] [[Connected pore volume](#)] [[Closed pore volume](#)] [[Porosity](#)] [[Connected porosity](#)] [[Closed porosity](#)]