

Multi-phase fluid

Fluid containing more than one [phases](#) at certain [pressure](#) and [temperature](#) conditions.

Each [phase](#) of the [Multiphase Fluid](#) is represented either by a [pure substance](#) or by a [Fluid Mixture](#) (see [Multiphase Fluid vs Fluid Mixture](#)).

This means that some [Multiphase Fluids](#) may consist of one [pure substance](#) and as such are not [Fluid Mixtures](#). A typical example is water-steam equilibrium which is a [pure substance fluid](#) with two [phases](#) (liquid and gaseous).

The most popular [multi-phase fluid](#) are:

oil + gas	2-phase
oil + water	2-phase
gas + water	2-phase
oil + gas + water	3-phase

It is important to remember that [multi-phase fluid](#) may collapse to a single-phase state at certain [pressure](#) and [temperature](#) conditions.

For example, a 2-phase [oil](#) + [gas](#) fluid may degrade to single-phase state when pressure goes up above [bubble point](#).

See also

[Natural Science](#) / [Physics](#) / [Thermodynamics](#) / [Thermodynamic system](#) / [Phase](#)

[[Multiphase Fluid vs Fluid Mixture](#)]