

Fluid-

fluid is the name given to a substance which begins to flow when external force is applied on it. The fluids do not have their own shape but take the shape of the containing vessel.

The branch of physics which deals with the study of fluids at rest is called hydrostatics.

The branch of physics which deals with the study of fluids in motion is called hydrodynamics.

Pressure of liquid-

The normal force exerted by liquid at rest on a given surface in contact with it is called thrust.

The normal force (or thrust) exerted by liquid at rest per unit area of the surface in contact with it, is called pressure of liquid or hydrostatic pressure.

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

$$P = \frac{F}{A}$$

SI Unit - N/m^2 or Pascal

Dimensions - $[M^1 L^{-1} T^{-2}]$

Atmospheric Pressure-

Force exerted by air column on unit cross-section area of sea level is called atmospheric pressure.

$$1 \text{ atm} = 1.01 \times 10^5 \text{ Pa} = 1.01 \text{ bar}$$

* 'Barometer' is used to measure atmospheric pressure.

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Emilie Sanchez



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