Thermodynamics Cheat Sheet

by Gladyzz via cheatography.com/178337/cs/48576/

System, Surrounding & Boundary

System : Quantity of matter or region in space which is under investigation

Surroundings : Anything which is external to the system

Boundary : Interface shared by system & surrounding

Thickness of boundary is zero, hence there is no mass or volume

Boundary can be rigid or flexible

Types of Systems

Closed System / Control Mass System : Mass interactions can't take place, but energy interactions can take place.

Open System / Control Volume System : Energy & mass interactions can take place.

Isolated System : Energy & mass interactions can't take place

Thermodynamics Equilibrium

Two systems are said to be in thermodynamic equilibrium when they are in thermal, mechanical, chemical & phase equilibrium with each other.

any measurable characteristic that defines the physical state of a thermodynamic system is a property

Types of Property

Extensive Property : depends on the size of the system.

Intensive Property : independent of the size of the system.

1. *Ratio of two extensive properties is an intensive property*
2. *Specific properties are extensive properties per unit mass*
3. *Extensive properties are additive in nature, whereas intensive properties are not*

By **Gladyzz**
cheatography.com/gladyzz/

Not published yet.
Last updated 6th November, 2026.

Sponsored by **Readable.com**
Measure your website readability!
https://readable.com