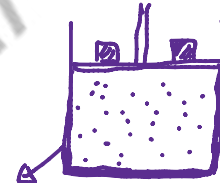


Class XI, Thermodynamics

Sunday, December 19, 2021 8:04 PM

ISOTHERMAL PROCESS: When a system undergoes a physical change under the condition that the temperature of the system remains constant, then such a process is called Isothermal Process.



conducting

conditions:

- (a) The walls of the container must be perfectly conducting to allow the free exchange of heat between the gas and its surrounding.
- (b) The process (expansion or compression) must be very slow so as to provide enough time for exchange of heat.

For a system with ideal gas $PV = \text{const}$

ADIABATIC PROCESS: When a system undergoes a physical change under the condition that no exchange of heat takes place between the system and the surroundings, then such a process is called adiabatic process.