

ISENTROPIC

Meaning: Isentropic refers to a thermodynamic process or flow that occurs at constant entropy, implying no heat transfer or friction, often used in idealized analyses.

1. Isentropic processes are often idealized in thermodynamic analyses to simplify calculations.
2. In fluid dynamics, isentropic flows assume that there is no heat transfer or friction.
3. The concept of isentropic efficiency is crucial in evaluating the performance of turbines and compressors.
4. Understanding isentropic relations helps engineers design more efficient energy systems.
5. During an isentropic expansion, the temperature and pressure of a gas decrease without heat loss.

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